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World Intellectual Property Organization (WIPO) - Geneva, Switzerland  
Organisation Mondiale de la Propriété Intellectuelle (OMPI) - Genève, Suisse

P2 1307189

US 04/12555

# THE UNITED STATES OF AMERICA

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April 18, 2005

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APPLICATION NUMBER: *PCT/US04/12555*  
FILING DATE: *April 23, 2004*

By Authority of the  
COMMISSIONER OF PATENTS AND TRADEMARKS



*N. Williams*  
N. WILLIAMS  
Certifying Officer

PCT/US04/12555

PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.

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PCT/US 04/12555	
International Application No.	
23 APR 2004 (23.04.04)	
International Filing Date	
Name of receiving Office: International Application	
Applicant's or agent's file reference (if desired) (12 characters maximum) 89843.016603	

**Box No. I TITLE OF INVENTION**  
STACKABLE BLOW MOLDED CABINET

**Box No. II APPLICANT** ☐ This person is also inventor

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

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This person is applicant for the purposes of:

☐ all designated States☒ all designated States except the United States of☐ the United States of America only☐ the States indicated in the Supplemental Box

**Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)**

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence (if no State of residence is indicated below.)

Cleveland, Terri P.  
16815 Creek Road  
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USA

This person is:

☐ applicant only☒ applicant and inventor☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:  
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State (that is, country) of residence:  
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**Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE**

The person identified below is hereby/has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:

☒ agent☐ common representative

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)

Dennis B. Danella  
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☐ Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

## Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Rhinewald, Richard J. 2404 Cornwall Drive Macedon, New York 14502 USA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: USA	State (that is, country) of residence: USA	
This person is applicant <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Nichol, Douglas O. 2200 Church Street Wajworth, New York 14568 USA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: USA	State (that is, country) of residence: USA	
This person is applicant for the <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Lewis, David 134 Hampton Way Penfield, New York 14526 USA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: USA	State (that is, country) of residence: USA	
This person is applicant for the <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental		
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Nowicky, David A. 12 North Passage Fairport, New York 14450 USA		This person is: <input type="checkbox"/> applicant only <input checked="" type="checkbox"/> applicant and inventor <input type="checkbox"/> inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office
State (that is, country) of nationality: USA	State (that is, country) of residence: USA	
This person is applicant for the <input type="checkbox"/> all designated States <input type="checkbox"/> all designated States except the United States of <input checked="" type="checkbox"/> the United States of America only <input type="checkbox"/> the States indicated in the Supplemental		
<input checked="" type="checkbox"/> Further applicants and/or (further) inventors are indicated on another continuation sheet.		

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## Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)

If none of the following sub-boxes is used, this sheet should not be included in the request.

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Oslecki, Scott W.  
47 East Street  
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USA

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

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State (that is, country) of nationality:

USA

State (that is, country) of residence:

USA

This person is applicant

☐ all designated States☐ all designated States except the United States of☒ the United States of America only☐ the States indicated in the Supplemental

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

Abernethy, Todd B.  
3325 Kane Avenue  
Skaneateles, New York 13152  
USA

This person is:

- ☐ applicant only  
☒ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

USA

State (that is, country) of residence:

USA

This person is applicant for the

☐ all designated States☐ all designated States except the United States of☒ the United States of America only☐ the States indicated in the Supplemental

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the

☐ all designated States☐ all designated States except the United States of☐ the United States of America only☐ the States indicated in the Supplemental

Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.)

This person is:

- ☐ applicant only  
☐ applicant and inventor  
☐ inventor only (If this check-box is marked, do not fill in below.)

Applicant's registration No. with the Office

State (that is, country) of nationality:

State (that is, country) of residence:

This person is applicant for the

☐ all designated States☐ all designated States except the United States of☐ the United States of America only☐ the States indicated in the Supplemental

☐ Further applicants and/or (further) inventors are indicated on another continuation sheet.

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 08/20/03

**Box No. V DESIGNATIONS**

The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.

However,

- ☐ DE Germany is not designated for any kind of national protection
- ☐ KR Republic of Korea is not designated for any kind of national protection
- ☐ RU Russian Federation is not designated for any kind of national protection

*(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States.)*

**Box No. VI PRIORITY CLAIM**

The priority of the following earlier application(s) is hereby claimed:

Filing date of earlier application (day/month/year)	Number of earlier application	Where earlier application is:		
		national application: country or Member	regional application:* regional Office	international application: receiving Office
item (1) (23.04.03) <sup>aa</sup> (23/04/2003) <sup>a</sup> 23 April 2003 <sup>aa</sup>	60/464,699	US <sup>(a)</sup>		
item (2)				
item (3)				

☐ Further priority claims are indicated in the Supplemental Box.

The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as:

- ☐ all items    ☐ item (1)    ☐ item (2)    ☐ item (3)    ☐ other, see Supplemental Box

\* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)): .....

**Box No. VII INTERNATIONAL SEARCHING AUTHORITY**

Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the international search, indicate the Authority chosen; the two-letter code may be used):

ISA/USPTO

Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority):

Date (day/month/year)

Number

Country (or regional Office)

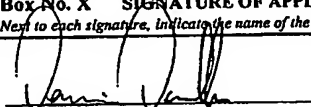
**Box No. VIII DECLARATIONS**

The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration):

Number of declarations

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Box No. VIII (i)   | Declaration as to the identity of the inventor   | : |
| <input type="checkbox"/> Box No. VIII (ii)  | Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent             | : |
| <input type="checkbox"/> Box No. VIII (iii) | Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application | : |
| <input type="checkbox"/> Box No. VIII (iv)  | Declaration of inventorship (only for the purposes of the designation of the United States of America)                               | : |
| <input type="checkbox"/> Box No. VIII (v)   | Declaration as to non-prejudicial disclosures or exceptions to lack of novelty:  | : |

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Box No. IX CHECK LIST; LANGUAGE OF FILING		Number of items
<p>This international application contains:</p> <p>(a) in paper form, the following number of sheets:</p> <p>request (including declaration sheets) : 6</p> <p>description (excluding sequence listing and/or tables related thereto) : 16</p> <p>claims : 7</p> <p>abstract : 1</p> <p>drawings : 30</p> <p><b>Sub-total number of sheets</b> : 60</p> <p>sequence listing : :</p> <p>tables related thereto : :</p> <p><i>(for both, actual number of sheets if filed in paper form, whether or not also filed in computer readable form; see (c))</i></p> <p><b>Total number of sheets</b> : 60</p> <p>(b) <input type="checkbox"/> only in computer readable form (Section 801(a)(i))</p> <p>(i) <input type="checkbox"/> sequence listing</p> <p>(ii) <input type="checkbox"/> tables related thereto</p> <p>(c) <input type="checkbox"/> also in computer readable form (Section 801(a)(ii))</p> <p>(i) <input type="checkbox"/> sequence listing</p> <p>(ii) <input type="checkbox"/> tables related thereto</p> <p><b>Type and number of carriers</b> (diskette, CD-ROM, CD-R or other) on which are contained the</p> <p><input type="checkbox"/> sequence listing: .....</p> <p><input type="checkbox"/> tables related thereto: .....</p> <p><i>(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)</i></p>	<p>This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the number of each item):</p> <p>1. <input checked="" type="checkbox"/> fee calculation sheet : 1</p> <p>2. <input type="checkbox"/> original separate power of attorney : :</p> <p>3. <input type="checkbox"/> original general power of attorney : :</p> <p>4. <input type="checkbox"/> copy of general power of attorney; reference number, if any: ..... : :</p> <p>5. <input type="checkbox"/> statement explaining lack of signature : :</p> <p>6. <input checked="" type="checkbox"/> priority document(s) identified in Box No. VI as item(s): ..... : 1</p> <p>7. <input type="checkbox"/> translation of international application into (language): ..... : :</p> <p>8. <input type="checkbox"/> separate indications concerning deposited microorganism or other biological material : :</p> <p>9. <input type="checkbox"/> sequence listing in computer readable form (indicate type and number of carriers)</p> <p>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Rule 13ter only (and not as part of the international application) : :</p> <p>(ii) <input type="checkbox"/> (only where check-box (b)(i) or (c)(i) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter : :</p> <p>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column : :</p> <p>10. <input type="checkbox"/> tables in computer readable form related to sequence listing (indicate type and number of carriers)</p> <p>(i) <input type="checkbox"/> copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international application) : :</p> <p>(ii) <input type="checkbox"/> (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) : :</p> <p>(iii) <input type="checkbox"/> together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column : :</p> <p>11. <input type="checkbox"/> other (specify): ..... : :</p>	
<p>Figure of the drawings which should accompany the abstract: 1</p>	<p>Language of filing of the international application: English</p>	
<p><b>Box No. X SIGNATURE OF APPLICANT, AGENT OR COMMON REPRESENTATIVE</b></p> <p><i>Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request).</i></p>		
<p> Date: 4/23/2004</p> <p>Dennis B. Danella, Esq. Reg. No.: 46,653 Attorney for Applicant</p> <p style="text-align: right; font-size: 1.2em;">(23.04.04)</p>		

For receiving Office use only		2. Drawings:
1. Date of actual receipt of the purported international application:	<b>DT02 Rec'd PCT/PTO 23 APR 2004</b>	<input type="checkbox"/> received:
3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:		<input type="checkbox"/> not received:
4. Date of timely receipt of the required corrections under PCT Article 11(2):		
5. International Searching Authority (if two or more are competent): ISA/US	6. <input type="checkbox"/> Transmittal of search copy delayed until search fee is paid	

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Date of receipt of the record copy by the International Bureau:

PCT/US04/12555

This sheet is not part of and does not count as a sheet of the international application.

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## FEE CALCULATION SHEET

Annex to the Request

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PCT/US 04/12555  
International Application No.23 APR 2004 (23.04.04)  
Date stamp of the receiving OfficeApplicant's or agent's  
file reference

89843.016603

Applicant

John D. Brush &amp; Co., Inc.

## CALCULATION OF PRESCRIBED FEES

1. TRANSMITTAL FEE

300.00 [T]

300.00

2. SEARCH FEE

1,000.00 [S]

1,000.00

International search to be carried out by ISA/USPTO

(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

3. INTERNATIONAL FILING FEE

Where item (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets } 60  
Where item (b) and (c) of Box No. IX do not apply, enter Total number of sheets }

[i1] first 30 sheets

1,134.00 [i1]

1,134.00

[i2]

30

x

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=

360.00 [i2]

number of sheets in  
excess of 30

360.00

[i3]

additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii):

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fee per sheet

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(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled,

4. FEE FOR PRIORITY DOCUMENT (if applicable)

[P]

5. TOTAL FEES PAYABLE

2,794.00

TOTAL

2,794.00

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## MODE OF PAYMENT

☐ authorization to charge  
deposit account (see below)☐ postal money order☐ cash☐ coupons☒ cheque☐ bank draft☐ revenue stamps☐ other (specify):AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT  
(This mode of payment may not be available at all receiving Offices)☐ Authorization to charge the total fees indicated above.☒ (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above.☐ Authorization to charge the fee for priority document.Receiving Office: USPTODeposit Account No.: 10-0223Date: 4/23/2004Name: Dennis E. DanellaSignature: Dennis E. Danella

PCT/US04/12555

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**PCT**  
**FEE CALCULATION SHEET**  
 Annex to the Request

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**PCT/US 04/12555**  
 International Application No.

Applicant's or agent's file reference <b>89843.016603</b>	Date stamp of the receiving Office
Applicant <b>John D. Brush &amp; Co., Inc.</b>	
<b>CALCULATION OF PRESCRIBED FEES</b>	
1. TRANSMITTAL FEE .....	<b>300.00</b> <b>T</b>
2. SEARCH FEE ..... International search to be carried out by <b>ISA/USPTO</b> <i>(If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)</i>	<b>1,000.00</b> <b>S</b>
3. INTERNATIONAL FILING FEE Where item (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets } <b>60</b> Where item (b) and (c) of Box No. IX do not apply, enter Total number of sheets	
<b>i1</b> first 30 sheets .....	<b>1,134.00</b> <b>i1</b>
<b>i2</b> <u>30</u> x <u>12.00</u> = <u>360.00</u> <b>i2</b> number of sheets in excess of 30      fee per sheet	
<b>i3</b> additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii): $400 \times \text{fee per sheet} = \text{ } \mathbf{i3}$	
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<i>(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled,</i>	
4. FEE FOR PRIORITY DOCUMENT (if applicable) .....	<b>P</b>
5. TOTAL FEES PAYABLE .....	<b>2,794.00</b> <b>TOTAL</b>
Add amounts entered at T, S, I and P, and enter total in the TOTAL box	
<b>MODE OF PAYMENT</b> <input type="checkbox"/> authorization to charge deposit account (see below) <input type="checkbox"/> postal money order <input type="checkbox"/> cash <input type="checkbox"/> coupons <input checked="" type="checkbox"/> cheque <input type="checkbox"/> bank draft <input type="checkbox"/> revenue stamps <input type="checkbox"/> other (specify):	
<b>AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT</b> <i>(This mode of payment may not be available at all receiving Offices)</i>	
<input type="checkbox"/> Authorization to charge the total fees indicated above. <input checked="" type="checkbox"/> <i>(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit)</i> Authorization to charge any deficiency or credit any overpayment in the total fees indicated above. <input type="checkbox"/> Authorization to charge the fee for priority document.	Receiving Office: <b>USPTO</b> Deposit Account No.: <b>10-0223</b> Date: <b>4/23/2004</b> Name: <b>Dennis B. Danella</b> Signature: <i>[Signature]</i>

**STACKABLE BLOW MOLDED CABINET**

**CROSS-REFERENCE TO RELATED APPLICATIONS**

[0001] This application claims the benefit of U.S. Provisional Application No. 60/464,699, filed on April 23, 2003.

**STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT**

[0002] Not applicable.

**BACKGROUND OF THE INVENTION**

[0003] The present invention relates to a stackable vertical file cabinet. In particular, the present invention relates to a stackable vertical file cabinet having fully extendable drawers. More particularly, the invention relates to a fire resistant stackable vertical file cabinet having fully extendable drawers and a locking mechanism that is capable of remaining in a locked position even if the file cabinet is damaged by fire.

[0004] Vertical file cabinets typically include a plurality of individual cabinet housings which open at the front so as to receive a plurality of file drawers therein in a vertically stacked arrangement. Such cabinets are well known and typically use fasteners such as screws or other connection methods to assemble the individual cabinet housings to one another to form a vertical cabinet assembly.

[0005] However, existing vertical file cabinets have a number of drawbacks and deficiencies. For instance, the use of screws or similar fasteners to secure each file cabinet to one another to form a vertical file cabinet can be difficult and time consuming. In addition, the use of screws or similar fasteners makes it difficult and

inconvenient to rearrange or customize the configuration of the cabinets to suit the needs of a user.

[0006] Existing vertical file cabinets also include drawers that are slidably positioned within the drawer housing by guide tracks that run on rollers or ball bearings. Also, the drawer assembly itself is made up of a number of parts that are assembled through the use of various tools and fasteners. The use of rollers and ball bearings and the need to use tools and fasteners to assemble the drawer assembly increases manufacturing time and cost.

[0007] Additionally, locking mechanisms used on file cabinets have a tendency to lose their ability to secure the file cabinet when exposed to fire. In particular, exposing the lock to increased temperatures causes the lock components to either melt or lose their structural integrity so that the cabinet drawer may be opened without regard to the locking mechanism.

[0008] Accordingly, there exists a need for a multi-drawer file cabinet system that allows for file cabinets to be securely and easily stacked upon one another without additional fastening members, while allowing for the file cabinets to be easily re-arranged to suit the needs of a user. In addition, there is a need for a drawer assembly that minimizes the use of tools and fasteners to reduce manufacturing time and cost. Further, there is a need for a file cabinet locking mechanism that remains functional even after being exposed to elevated temperatures. The present invention fills these needs as well as other needs.

#### BRIEF SUMMARY OF THE INVENTION

[0009] In order to overcome the above stated problems and limitations there is provided a multi-drawer fire-resistant file cabinet having an upper cabinet that may be stacked on top of a lower file cabinet.

[0010] In general, the lower cabinet may include a top surface having a peripheral edge with a first perimeter. The upper cabinet includes a base with a sidewall. The sidewall has a peripheral edge with a second perimeter. The second perimeter is larger than the first perimeter so that the sidewall fits around the peripheral edge of the top surface of the first cabinet.

[0011] In addition, the sidewall of the base includes a top edge, wherein the distance between the top edge and the peripheral edge of the sidewall is equal to the distance between the peripheral edge of the top surface of the first cabinet and the edge of the drawer opening. A bumper or washer may be positioned between the base and the top surface of the lower cabinet to prevent damage to the cabinets. An accessory holder may also be positioned on top of the upper cabinet.

[0012] Further, the upper and lower cabinets may include an interior casing, an upper shell portion and a rear shell portion. At least one of the upper shell portion and the rear shell portion has a tab extending from a bottom edge thereof, and the base has at least one slot defined therein for accepting the tab to secure the upper shell portion and rear shell portion to the base.

Each of the cabinets may also include an extendable drawer assembly having a pair of slide members slidably positioned between a pair of outer tracks formed in an interior casing and a pair of tracks formed in a drawer frame. The outer tracks formed in the interior casing may each include an outer groove and an inner groove, wherein at least one of the slide members have a stop extending therefrom that extends into the inner groove formed in the interior casing. A pair of drawer tracks may extend from the drawer frame and have slots defined therein, wherein each of the slide members have slide tabs that extend into the slots formed in the drawer

tracks. Moreover, the drawer assembly may further include a clip having a locking tab that is positioned within a lock slot formed in the slide tabs.

[0013] Furthermore, the drawer assembly may include a drawer head, an escutcheon plate, a drawer front, and a locking mechanism, wherein the drawer head and the escutcheon plate are coupled with the drawer front, and the locking mechanism is positioned within the escutcheon plate. The locking mechanism may include a cam having an attaching leg, a flat portion, and a locking leg. The drawer head includes a ledge positioned below at least a portion of the flat portion of the cam, and the interior casing has a recess formed therein for receiving the locking leg of the cam to allow the drawer assembly to remain in a locked position even if the cabinet sustains fire damage.

[0014] Additional objects, advantages and novel features of the present invention will be set forth in part in the description which follows, and will in part become apparent to those in the practice of the invention, when considered with the attached figures.

#### BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWINGS

[0015] The accompanying drawings form a part of this specification and are to be read in conjunction therewith, wherein like reference numerals are employed to indicate like parts in the various views, and wherein:

[0016] FIG. 1 is a perspective view of a multi-drawer file cabinet having upper and lower file cabinets in accordance with the present invention;

[0017] FIG. 1A is a perspective view of an accessory holder that may be used in conjunction with the multi-drawer file cabinet shown in FIG. 1;

[0018] FIG. 2 is an exploded view of at least one of the file cabinets shown in FIG. 1 without a drawer assembly;

[0019] FIG. 2A is an enlarged partial bottom perspective view of a base and an upper shell portion of at least one of the file cabinets shown in FIG. 1;

[0020] FIG. 3 is an enlarged partial bottom perspective view of the upper shell portion shown in FIG. 2;

[0021] FIG. 4 is an enlarged partial top perspective view of the base shown in FIG. 2;

[0022] FIG. 5 is an enlarged partial bottom perspective showing the base coupled with the upper shell portion in FIG. 3;

[0023] FIG. 6 is a perspective view of the base and an interior casing of at least one of the file cabinets shown in FIG. 1;

[0024] FIG. 7 is an enlarged partial perspective view of the interior casing engaged with a front portion of the base;

[0025] FIG. 8 is a partial rear perspective view of the upper shell portion, the base, and the interior casing shown in FIG. 2;

[0026] FIG. 9 is a side perspective view of the drawer assembly shown in FIG. 1;

[0027] FIG. 10 is an enlarged partial perspective view of the interior casing;

[0028] FIG. 11 is a perspective view of the interior casing shown in FIG. 2;

[0029] FIG. 12 is an enlarged partial perspective view of a side member of the drawer assembly shown in FIG. 9;

[0030] FIG. 13 is an enlarged partial perspective view of the drawer assembly shown in FIG. 9;

[0031] FIG. 14 is an enlarged partial perspective view of the drawer assembly shown in FIG. 9;

[0032] FIG. 15 is a cross-sectional view taken along line 15-15 in FIG. 9;

[0033] FIG. 16 is a perspective view of a drawer frame that is a component of the drawer assembly shown in FIG. 9;

[0034] FIG. 17 is a rear perspective view of a drawer front that is a component of the drawer assembly shown in FIG. 9;

[0035] FIG. 18 is a front perspective view of a drawer head that is a component of the drawer assembly shown in FIG. 9;

[0036] FIG. 19 is a rear perspective view of the drawer head shown in FIG. 9;

[0037] FIG. 20 is a rear perspective view of an escutcheon plate that is a component of the drawer assembly shown in FIG. 9;

[0038] FIG. 20A is a rear perspective exploded view of the drawer front and escutcheon plate of the drawer assembly;

[0039] FIG. 20B is a rear perspective view similar to FIG. 20A with the escutcheon plate mounted in the drawer front;

[0040] FIG. 20C is a front perspective view showing the escutcheon plate mounted to the drawer front;

[0041] FIG. 21 is a front perspective view of a locking mechanism that is adapted to be mounted to the escutcheon plate shown in FIGS. 20 and 20C;

[0042] FIG. 21A is a rear perspective view of the locking mechanism shown in FIG. 21;

[0043] FIG. 22 is a rear perspective view of the escutcheon plate and locking mechanism secured to the drawer front with a pair of holding clips;

[0044] FIG. 23 is an enlarged partial perspective view of the drawer assembly shown in FIG. 9; and

[0045] FIG. 24 is cross-sectional view taken along line 24-24 in FIG. 1 showing the locking mechanism in a locked position.

## DETAILED DESCRIPTION OF THE INVENTION

[0046] Referring now to the drawings in detail, and initially to FIG. 1, reference numeral 10 generally designates a multi-drawer file cabinet. In general, file cabinet 10 may include an upper file cabinet 11 and a lower file cabinet 12. With additional reference to FIG. 2A, both upper file cabinet 11 and lower file cabinet 12 may include a base 13 having a sidewall 13a and a lower surface 13c. The peripheral edge of sidewall 13a may be rectangular, circular or any other shape. Furthermore, upper and lower vertical file cabinet 11, 12 have a top surface 14 having a peripheral edge in the shape of a rectangle, circle or any other shape that allows it to fit within the boundary of the peripheral edge of sidewall 13a. It will be understood that sidewall 13a and top surface 14 are preferably the same general shape.

[0047] The inner perimeter or peripheral edge of sidewall 13a of base 13 is slightly larger than the outer perimeter or peripheral edge of top surface 14 to allow for a secure fit between upper and lower file cabinet 11, 12. In particular, sidewall 13a includes a top edge 15 and a bottom edge 16, wherein the distance between top edge 15 and bottom edge 16 may be equal to or less than the distance between a top surface 17 of lower file cabinet 12 and a top edge 18a of a drawer opening 18. The spacing between top surface 17 and upper edge 18 of a drawer opening allows for maximum overlap between base 13 and top surface 14 without prohibiting the opening of a drawer assembly 19. Additionally, as best seen in FIGS. 2 and 2A, one or more bumpers or washers 13b may be attached to lower surface 13c of base 13 to assure that one or more screws 30 do not contact top surface 17 of lower file cabinet 12.

[0048] As best seen in FIGS. 1 and 2A, multi-drawer file cabinet 10 may be assembled by placing upper file cabinet 11 on top of lower file cabinet 12 so that the

inner perimeter of sidewall 13a fits securely over top surface 14 of lower file 12.

After assembly, the drawer assembly 19 will open without contacting bottom edge 16 of base 13. While FIG. 1 illustrates a file cabinet 10 with two individual cabinets, it will be understood that file assemblies with more than two individual cabinet assemblies are also within the scope of the present invention.

[0049] As best seen in FIG. 1A, an accessory holder 140 may be placed on top of upper file cabinet 11. Accessory holder 140 may include a base 13d that has the same interior dimensions as base 13 of vertical file cabinets 11, 12. Thus, accessory holder 140 may be placed on top portion 14 of upper file cabinet 11 without interfering with the opening of drawer assembly 19. In addition, accessory holder 140 may also include one or more file holders 141, paper clip holders 142, pencil holders 143, and memo pad holders 144. While accessory holder 140 is shown with a particular configuration of accessory slots or compartments, it will be understood that other configurations are also contemplated.

[0050] As best seen in FIG. 2, each file cabinet 11, 12 may include a three piece sheet metal assembly. Specifically, the sheet metal assembly is made up of an upper shell portion 21, a rear shell portion 22 and base 13. Further, an interior casing or housing 23 is adapted to be positioned within shells 21, 22 and base 13. Upper portion 21 consists of a top section 17a and two side sections 24, 25. With additional reference to FIG. 3, side sections 24, 25 each have one or more tabs 26 that extend from at least one of bottom edge 20a, 20b and extend inwardly generally toward the opposite edge. Also, each of tabs 26 may have a mounting hole 27 defined therein.

[0051] With additional reference to FIG. 4, base 13 includes a number of slots 28 that corresponds to the number of tabs 26, and has mounting holes 29 that are defined therein positioned adjacent to tabs 26. Slots 28 are positioned and aligned for

receiving tabs 26 that extend from side sections 24, 25. Additionally, each of the slots 28 of base 13 also include a fitted groove 28a. Groove 28a may be sized to allow each of tabs 26 to slide therein after being positioned through their respective slots 28.

[0052] In order to securely attach side sections 24, 25 to base 13, each of the tabs 26 are placed into their respective slots 28 on base 13. As best seen in FIG. 5, tabs 26 are then slid into grooves 28a until the central mounting hole 27 of tab 26 is aligned with mounting hole 29. To further secure upper shell portion 21 to base 13, screw 30 or other suitable fastener may be fastened within holes 27 and 29.

[0053] As best seen in FIGS. 6-8, interior casing 23 includes a front side 31, a rear side 32 and may be blow molded or formed by other processes or methods. Additionally, base 13 further includes a front end 33, a back end 34, a top surface 35, and a lip 36. While the illustrations of FIGS. 6 and 7 show interior casing 23 on base 13 without upper shell portion 21 attached to the base 13, interior casing 23 may also be added to base 13 prior to, or after, the aforementioned step of attaching upper shell portion 21 to base 13.

[0054] To further secure interior casing 23 to base 13, interior casing 23 is placed on top surface 35 of back end 34 of base 13, and then slid forward toward the front end 33 of base 13. When front side 31 of interior casing 23 converges with front end 33 of top surface 35 of base 13, it engages lip 36 that is attached to and extends from base 13. Specifically, lip 36 extends upwardly from top surface 35 and bends at approximately a right angle towards back end 34 of base 13. Lip 36 shall serve to secure interior casing 23 to base 13.

[0055] As best seen in FIGS. 5 and 8, once interior casing 23 is secured to base 13, and upper shell portion 21 is secured to base 13, it will be understood that casing 23 is filled with insulation material. The insulation material may be a non-

flammable, thermal insulating material, generally made of a mixture that solidifies in a mold. The steps of placing interior casing 23 into the cabinet between upper shell portion 21 and base 13, and then filling it with the insulation material has the added benefit of providing a brace and additional support for the cabinet.

[0056] As best seen in FIGS. 2 and 8, upon the addition of the insulation material into interior casing 23, the rear shell portion 22 is mounted to base 13 and upper shell portion 21. The rear shell portion 22 may have one or more mounting holes 45 defined therein, and a plurality of tabs 38 having a mounting hole 39 defined in each tab 38. Moreover, the rear surface of upper shell portion 21 include one or more mounting holes 44 defined therein, and base 13 has a plurality of slots 40 with adjacent mounting holes 41 defined therein. The mounting holes 44 defined in upper portion 21 of the assembly are located on a recessed surface 42. Recessed surface 42 is indented from outer surface 43 a distance corresponding to the thickness of the rear shell portion 22, wherein outer surface 46 of rear shell portion 22 may be flush with outer surface 43 of the cabinet assembly.

[0057] The assembly of the rear shell portion 22 is completed by inserting tabs 38 into slots 41 and aligning mounting holes 39 with mounting holes 41. Additionally, mounting holes 45 of the rear shell portion 22 are aligned with mounting holes 44 on recessed surface 42. Screws (not shown) or any suitable fasteners may be used to secure the rear shell portion 22 to upper shell portion 21 by using the aforementioned mounting holes.

[0058] As best seen in FIG. 9, drawer assembly 19 includes a front drawer assembly 54a, a drawer frame 54 and two opposing slide members 50a, 50b that allow the drawer assembly to move relative to interior casing 23. With additional reference to FIGS. 10 and 11, each slide member 50a, 50b is disposed between a pair of outer

tracks 51a, 51b and integral drawer tracks 52a and 52b. Outer tracks 51a, 51b may be integrally formed on the interior sidewalls of interior casing 23, and integral drawer tracks 52a and 52b formed in the outside surface of sidewalls 53a and 53b of drawer assembly 19.

[0059] As best seen in FIGS. 10 and 11, each of outer tracks 51a and 51b are formed on the interior of interior casing 23 and further include a first outer groove 55a, 55b and a second inner groove 56a, 56b. With additional reference to FIGS. 9 and 12, slide members 50a, 50b each comprise an upper surface 57a, 57b, a lower surface 58a, 58b, and an outwardly protruding stop 59. When drawer assembly 19 is installed in the interior casing 23, each of the stops 59 extend into inner grooves 56a, 56b thereby providing a first drawer stop, and each slide member 50a, 50b is slidably disposed in outer grooves 55a, 55b on the interior wall of interior casing 23. It will also be understood that slide members 50a, 50b may be one common piece (not shown), in which left and right side slide members 50a, 50b are attached by a rear rail. The rear rail may serve as an additional support to retain left and right outside slide members within the slide rail groove in the interior wall.

[0060] As best seen in FIG. 9, integral drawer tracks 52a, 52b protrude from the outside surface of sidewalls 53a, 53b of drawer assembly 19 and have elongated slots 60a, 60b defined therein. With additional reference to FIGS. 13 and 14, slide members 50a, 50b further comprise inwardly extending slide tabs 61a, 61b, each having a lock slot 62 defined therein, respectively.

[0061] When assembled, as best seen in FIG. 9, the drawer tracks 52a, 52b protruding from the outside surface of sidewalls 53a, 53b of drawer assembly 19 are inserted into the respective inner channels 64a, 64b of slide members 50a, 50b. Slide tabs 61a, 61b are inserted into the respective elongated slots 60a, 60b of sidewalls

53a, 53b of drawer assembly 19 as best seen in FIG. 13. Drawer assembly 19 is then secured to slide members 50a, 50b through the use of clips 63a, 63b. Each clip 63a, 63b, includes a locking tab 164 for insertion into lock slot 62 of slide tabs 61a, 61b. Further, clips 63a, 63b may be formed of a plastic material and include a flange 63b that extends generally perpendicular to an engaging portion 63c. Also, it will be understood that a brace 63d may extend between flange 63b and portion 63c.

[0062] In addition to serving to secure drawer frame 54 to the two slide members 50a, 50b, plastic clips 63a, 63b assure that the metal slide tabs 61a, 61b do not contact the metal from drawer assembly 19 when the drawer is opened. Additionally, to further minimize contact between the metal surfaces of sidewalls 53a, 53b and slide members 50a, 50b, upper extrusions 65, and lower extrusions 66 may be added to upper surfaces 57a, 57b and lower surfaces 58a, 58b of slide members 50a, 50b, respectively.

[0063] As best seen in FIG. 15, upper extrusions 65 or lower extrusions 66 may be formed in an H-shape so that they fit within a slot 70 formed in each of the respective upper surfaces 57a, 57b and lower surfaces 58a, 58b of slide members 50a, 50b. It will also be understood that upper and lower extrusions may be C-shaped so that extrusions 65, 66 slip over the end of the respective surfaces of the slide members 50a, 50b. If the extrusion is C-shaped, the extrusion may be secured to slide member 50a, 50b by a tab (not shown) that is integrally formed with the respective surface of the slide member. The extrusions may be plastic or any other suitable material.

[0064] As best seen in FIG. 16, a drawer frame 54 is shown with sidewalls 53a, 53b, a front section 73, a back section 74, and a bottom section 75. Front section 73, back section 74, and bottom section 75 may be constructed from a single piece of sheet metal, but other configurations are also contemplated. Additionally, the

sidewalls 53a, 53b are coupled with front section 73, back section 74, and bottom section 75 by any suitable method of attaching sheet metal, such as, but not limited to, a "Tog-L-Lock" fastening device.

[0065] As best seen in FIGS. 9 and 17-21, a front drawer assembly 54a includes a drawer front 76, a blow molded drawer head 77, an escutcheon plate 78, and a locking mechanism 79. As will be described below, front drawer assembly 54a may be assembled without tools or fasteners thereby reducing assembly costs. In particular, as best seen in FIG. 17, drawer front 76 may be formed of sheet metal and includes an escutcheon plate opening 80, a faceplate recess 82, a sheet metal ledge 83, a latching slot 84, and attaching tabs 85. With reference to FIGS. 20, 20A, 20B and 20C, escutcheon plate 78 includes a pair of side support members 88 and a rim 87, and is attached to drawer front 76 by first inserting rim 87 through escutcheon plate opening 80. In order to assure that escutcheon plate 78 is securely attached to drawer front 76, rim 87 of escutcheon plate 78 may be inserted into faceplate recess 82 and a pair of holding clips 86 (FIG. 22) may be inserted between side support members 88 and the back surface of drawer front 76. Each of holding clips 86 have a protrusion that is adapted to snap within an aperture 86a to securely keep escutcheon plate 78 coupled with drawer front 76.

[0066] As best seen in FIGS. 21, 21A and 22, a locking assembly 79 may be movably mounted in drawer assembly 19, and particularly in front drawer assembly 54a, for transition between closed and opened positions to selectively prevent access to the interior compartment of internal casing 23. In general, locking assembly 79 includes a body 100 that may be formed of a die cast material, and a cam 90 that may be formed of steel. Cam 90 may be Z-shaped and further comprises a locking leg 91, an attaching leg 92, and a flat portion 93. In addition, attaching leg 92 may have a

slot (not shown) defined therein to allow cam 90 to be attached to a internal bezel (not shown) through the use of a fastening mechanism.

[0067] With reference to FIGS. 20, 20C, 21, 21A and 22, locking assembly 79 may be mounted through the front of escutcheon plate 78 in drawer face 76. In doing so, an upper tab 101 and a lower tab 102 of locking assembly 79 are aligned with an upper slot 103 and a lower slot 104 on escutcheon plate 78 to assure proper positioning. Once locking assembly 79 is properly aligned, a plurality of side tabs 105 of escutcheon plate 78 are snapped into a pair of side recesses 106 defined in locking assembly 79, thereby securing locking assembly 79 with escutcheon plate 78.

[0068] As best seen in FIG. 17, two side grooves 114 and a top groove 115 are formed on the outer perimeter of drawer front 76. With additional reference to FIGS. 18 and 19, drawer head 77 also includes an escutcheon plate receiving recess 110, a lock assembly receiving recess 111, a ledge 112 and a lip 113. Drawer head 77 is attached to drawer front 76 by sliding lip 113 into the two side grooves 114 formed on the outer perimeter of drawer front 76 through entry points 116. Drawer head 77 is in position when upper surface 117 of lip 113 contacts upper surface 118 in top groove 115. Drawer head 77 is then secured to drawer front 76 at the top 115 and two sides 114.

[0069] As best seen in FIGS. 9 and 16, the fully assembled front drawer assembly 54a may now be attached to the completed drawer frame 54. Specifically, with additional reference to FIG. 19, a rear protrusion 128 extends outwardly from the rear of drawer head 77 and includes a lower surface 119. Further, front section 73 of drawer frame 54 includes a top edge 120 and tab mounting surfaces 121. As best seen in FIGS. 16, 17 and 23, the front drawer assembly 54a is secured to drawer frame 54 by fixedly attaching tabs 85 to tab mounting surfaces 121 on the drawer frame 54 by

any suitable method of attachment, such as, but not limited to, welding, adhesive or mechanical fasteners. With further reference to FIG. 19, top edge 120 of front section 73 of drawer frame 54 is coupled with lower surface 119 of protrusion 128 to securely hold drawer head 77 in place.

[0070] As best seen in FIGS. 22 and 24, the locking mechanism 79 is in the secure or locked position. Latching slot 84 of ledge 83 may be shaped to provide adequate clearance to allow cam 90 to rotate into the locked position. In operation, the drawer assembly 19 is locked when cam 90 is in the upright position as illustrated in FIG. 24. Attempting to open drawer assembly 19 while locking mechanism 79 is in a locked position will result in cam 90 contacting ledge 83, which will preclude the drawer from opening.

[0071] In the event that the file cabinet is subjected to fire or extreme heat, sheet metal elements, such as ledge 83, may become damaged and be unable to serve as a stop for the cam. In such an event, drawer assembly 19 of file cabinet 10 will remain secure. In particular, upon attempting to open the drawer assembly 19, ledge 112 (FIGS. 18 and 24) in drawer head 77 will serve as a rest for flat portion 93 of cam 90, and a front surface 131 adjacent to a recess 132 formed in a top wall 130 of interior casing 23 will contact locking leg 91 of cam 90.

[0072] The present invention overcomes and ameliorates the drawbacks and deficiencies in the prior art. Specifically, the multi-drawer file cabinet of the present invention provides fire-resistance and allows a plurality of file cabinets to be securely stacked upon one another without requiring additional fastening members. In addition, the present invention includes at least one rubber bumper or washer positioned between upper and lower file cabinets to prohibit the fastening members

from damaging the top surface of the lower file cabinet. Furthermore, the present invention allows two stacked panels to fit under a standard size top.

[0073] The present invention also includes a unique full extension, inexpensive drawer assembly. At least one anti-scrape polymeric guide extrusion is located at the outer ends of the channels in order to reduce binding and scraping of the slide channels with other portions of the drawer assembly and the interior casing. The drawer assembly allows for easy installation and does not utilize rollers or bearings. To reduce assembly costs, the entire front drawer assembly can be assembled without tools or fasteners. Furthermore, the present invention includes a unique lock assembly that retains the drawer assembly in a locked position even if the drawer front or drawer assembly sustains fire damage.

[0074] Although the present invention has been described in considerable detail with reference to certain preferred versions thereof, other versions are possible. Therefore, the spirit and scope of the appended claims should not be limited to the description of the preferred versions contained herein.

[0075] All features disclosed in the specification, including the claims, abstract, and drawings, and all the steps in any method or process disclosed, may be combined in any combination, except combinations where at least some of such features and/or steps are mutually exclusive. Each feature disclosed in the specification, including the claims, abstract, and drawings, can be replaced by alternative features serving the same, equivalent or similar purpose, unless expressly stated otherwise. Thus, unless expressly stated otherwise, each feature disclosed is one example only of a generic series of equivalent or similar features.

# CLAIMS

What is claimed is:

1. A multi-drawer file cabinet comprising:  
a first cabinet including a top surface having a peripheral edge, the peripheral edge of the top surface having a first perimeter, the first cabinet having a drawer opening defined by an edge; and  
a second cabinet including a base, the base having a sidewall with a peripheral edge, the peripheral edge of the sidewall having a second perimeter, wherein the second perimeter is larger than the first perimeter, wherein the sidewall of the second cabinet fits around the peripheral edge of the top surface of the first cabinet so that the second cabinet is positioned on top of the first cabinet.
2. The multi-drawer file cabinet as recited in claim 1, wherein the sidewall includes a top edge, wherein the distance between the top edge and the peripheral edge of the sidewall is equal to the distance between the peripheral edge of the top surface of the first cabinet and the edge of the drawer opening.
3. The multi-drawer file cabinet as recited in claim 1, further comprising at least one bumper mounted to a lower surface of the base.
4. The multi-drawer file cabinet as recited in claim 1, further comprising an accessory holder including a base, the accessory holder base having a sidewall with a peripheral edge, the peripheral edge of the accessory holder sidewall having a third perimeter, wherein the third perimeter is larger than a perimeter of a top

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surface of the second cabinet so that the sidewall of the accessory holder fits around the peripheral edge of the top surface of the second cabinet

5. The multi-drawer file cabinet as recited in claim 1, wherein at least one of the first and second cabinets further includes an interior casing, an upper shell portion and a rear shell portion.

6. The multi-drawer file cabinet as recited in claim 5, wherein at least one of the upper shell portion and the rear shell portion has at least one tab extending from a bottom edge, and the base having at least one slot defined therein for accepting the tab.

7. The multi-drawer file cabinet as recited in claim 6, wherein the upper shell portion has opposing side sections with at least one tab extending from each bottom edge, wherein each of the tabs extend generally inward toward the opposing side section.

8. The multi-drawer file cabinet as recited in claim 6, wherein the slot includes a fitted groove.

9. The multi-drawer file cabinet as recited in claim 8, wherein the tab has a mounting hole defined therein, wherein the base has a corresponding mounting hole defined therein, and wherein a fastening mechanism extends between the mounting holes to secure the upper shell portion with the base.

10. The multi-drawer file cabinet as recited in claim 5, wherein at least a portion of the interior casing is formed of a fire-resistant material.

11. The multi-drawer file cabinet as recited in claim 5, wherein the base includes a top surface, wherein a lip extends from a top surface of the base to engage a front side of the interior casing.

12. The multi-drawer file cabinet as recited in claim 5, further comprising a drawer assembly, wherein the drawer assembly includes a front drawer assembly, a frame, and a pair of opposing slide members, wherein the front drawer assembly is coupled with the frame, and the opposing slide members are slidably coupled with the frame to allow the drawer assembly to move relative to the interior casing.

13. The multi-drawer file cabinet as recited in claim 12, wherein slide members are disposed between a pair of outer tracks formed in the interior casing and a pair of drawer tracks positioned on the frame.

14. The multi-drawer file cabinet as recited in claim 13, wherein the outer tracks formed in the interior casing each include an outer groove and an inner groove, wherein at least one of the slide members have a stop extending therefrom that extends into the inner groove formed in the interior casing.

15. The multi-drawer file cabinet as recited in claim 12, wherein a pair of drawer tracks extend from the frame and have slots defined therein, and

wherein each of the slide members have slide tabs that extend into the slots formed in the drawer tracks.

16. The multi-drawer file cabinet as recited in claim 15, wherein at least one of the slide tabs has a lock slot formed therein, the drawer assembly further comprising at least one clip having a locking tab extending therefrom, wherein the locking tab is positioned within the lock slot.

17. The multi-drawer file cabinet as recited in claim 16, further comprising an extrusion coupled with at least one of the slide members.

18. The multi-drawer file cabinet as recited in claim 12, wherein the front drawer assembly includes a drawer head, an escutcheon plate, a drawer front, and a locking mechanism, wherein the drawer head and the escutcheon plate are coupled with the drawer front, and the locking mechanism is positioned within the escutcheon plate.

19. The multi-drawer file cabinet as recited in claim 18, wherein the locking mechanism includes a cam, and wherein the drawer front has a latching slot formed therein for receiving the cam.

20. The multi-drawer file cabinet as recited in claim 19, wherein the cam includes an attaching leg, a flat portion, and a locking leg.

21. The multi-drawer file cabinet as recited in claim 20, wherein the drawer head includes a ledge positioned below at least a portion of the flat portion of the cam, and wherein the interior casing has a recess formed therein for receiving the locking leg of the cam.

22. A file cabinet comprising:

a housing having an interior compartment accessible through an opening defined in the housing, the interior compartment having a pair of opposing sidewalls with a pair of outer tracks integrally defined therein, each of the outer tracks including an inner groove and an outer groove; and

a drawer assembly including a front drawer assembly, a frame, and a pair of slide members, the slide members being slidably coupled to the frame of the drawer assembly and positioned within the outer tracks of the housing, wherein the slide members have a stop extending therefrom that extends into the inner groove.

23. The file cabinet as recited in claim 22, wherein at least one of the housing and the drawer assembly is formed of a fire-resistant material.

24. The file cabinet as recited in claim 22, wherein a pair of drawer tracks extend from the frame and have slots defined therein, and wherein each of the slide members have slide tabs that extend into the slots formed in the drawer tracks.

25. The file cabinet as recited in claim 24, wherein at least one of the slide tabs have a lock slot formed therein, the drawer assembly further comprising

at least one clip having a locking tab extending therefrom, wherein the locking tab is positioned within the lock slot.

26. The file cabinet as recited in claim 22, further comprising an extrusion coupled with at least one of the slide members.

27. A file cabinet comprising:

a housing having an interior compartment accessible through an opening defined in the housing, the housing having a recess defined therein; and

a drawer assembly slidably positioned within the housing, the drawer assembly comprising:

a drawer front having an escutcheon opening and a latching slot defined therein;

a drawer head coupled with the drawer front, the drawer front having a ledge;

an escutcheon plate positioned within the escutcheon opening, the escutcheon plate having a lock opening defined therein; and

a locking mechanism mounted within the lock opening in the escutcheon plate, the locking mechanism including a cam having a flat portion and a locking leg, wherein at least a portion of the flat portion of the cam is positioned above the ledge of the drawer head when the locking mechanism is in a locked position, and wherein at least a portion of the locking leg is positioned within the recess defined in the housing when the locking mechanism is in the locked position.

28. The file cabinet as recited in claim 27, wherein the cam further includes an attaching leg, wherein the attaching leg is positioned within the latching slot when the locking mechanism is in the locked position.

29. The file cabinet as recited in claim 27, wherein the escutcheon plate includes at least one tab, wherein the locking mechanism has at least one tab recess formed therein, and wherein the tab is positioned within the tab recess.

30. The file cabinet as recited in claim 27, wherein the escutcheon plate includes side support members, wherein at least one holding clip is positioned between the escutcheon plate and the drawer front.

31. The file cabinet as recited in claim 27, wherein at least one of the drawer head and housing are at least partially formed of a fire-resistant material.

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#### ABSTRACT OF THE DISCLOSURE

A multi-drawer file cabinet having an upper cabinet that may be stacked on top of a lower file cabinet is provided. The lower cabinet includes a top surface having a peripheral edge with a first perimeter. The upper cabinet includes a base with a sidewall. The sidewall has a peripheral edge with a second perimeter. The second perimeter is larger than the first perimeter so that the sidewall fits around the peripheral edge of the top surface of the first cabinet. The cabinets include an extendable drawer assembly having a pair of slide members slidably positioned between a pair of outer tracks formed in a casing and tracks formed in a drawer frame. Furthermore, a locking assembly is associated with a recess in the casing and a ledge of a drawer head to allow the drawer assembly to remain in a locked position even if the cabinet sustains fire damage.

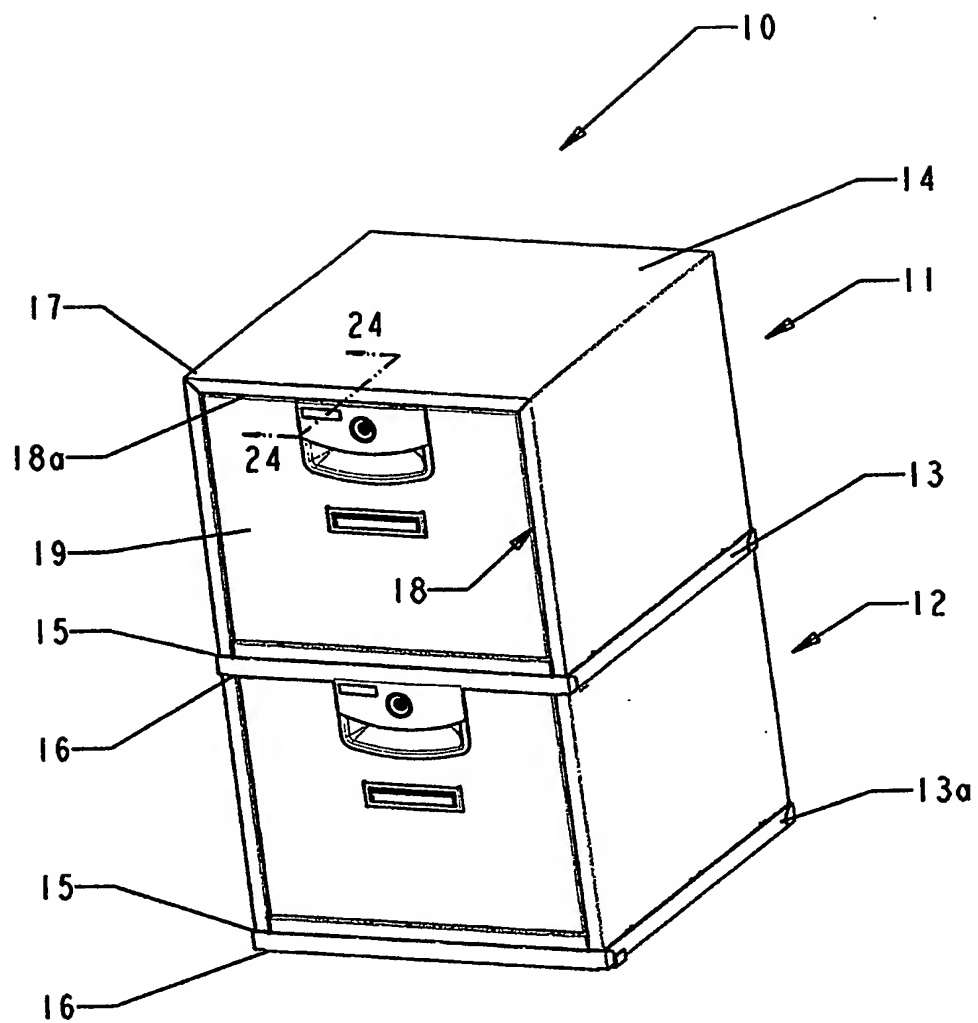


FIG. 1

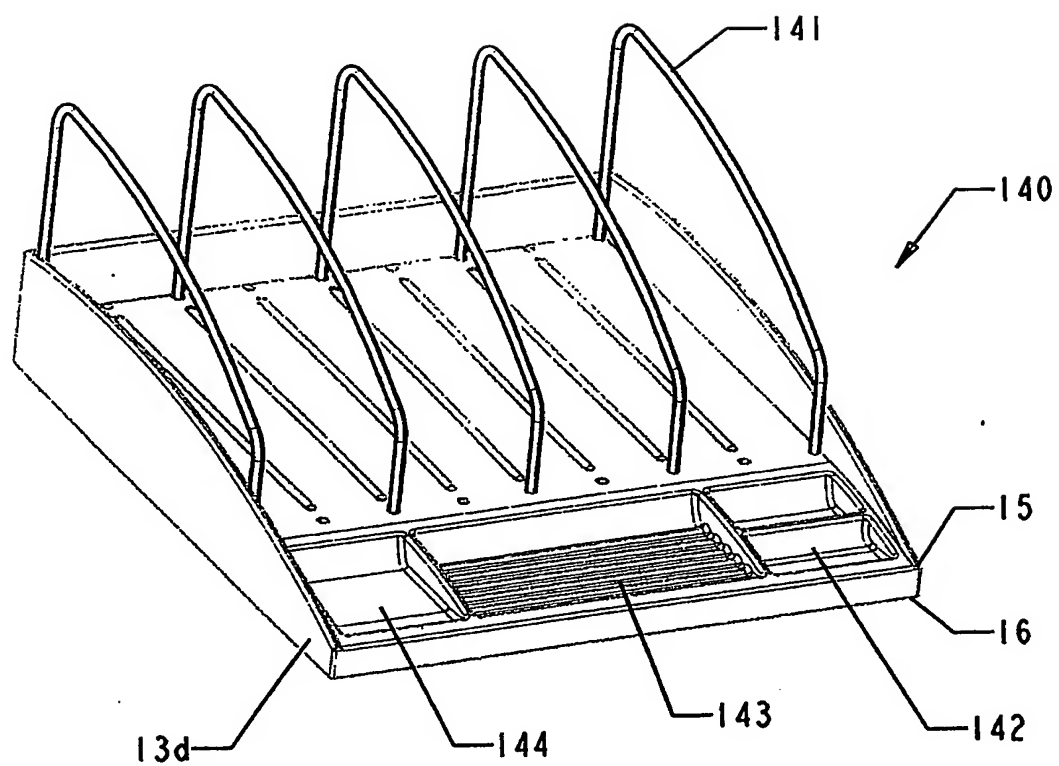


FIG. 1A

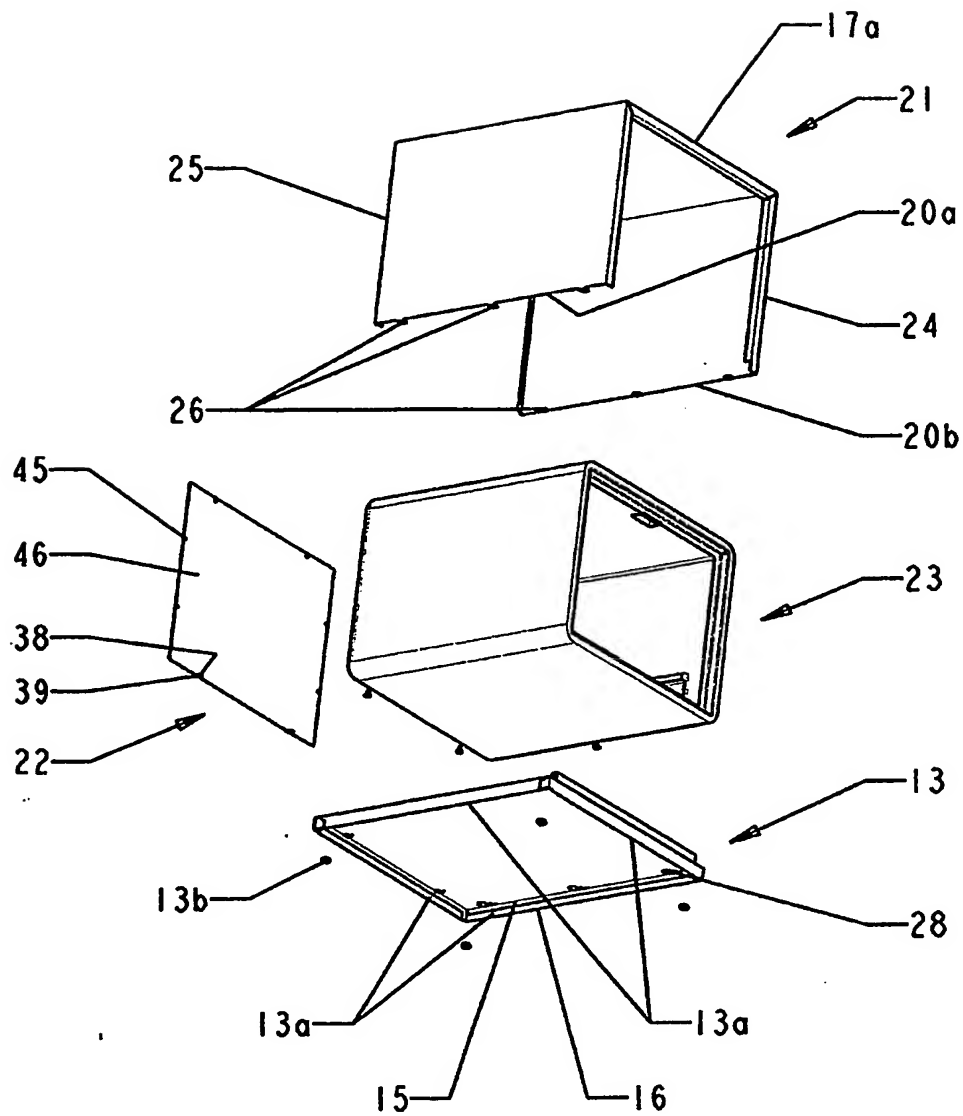


FIG. 2

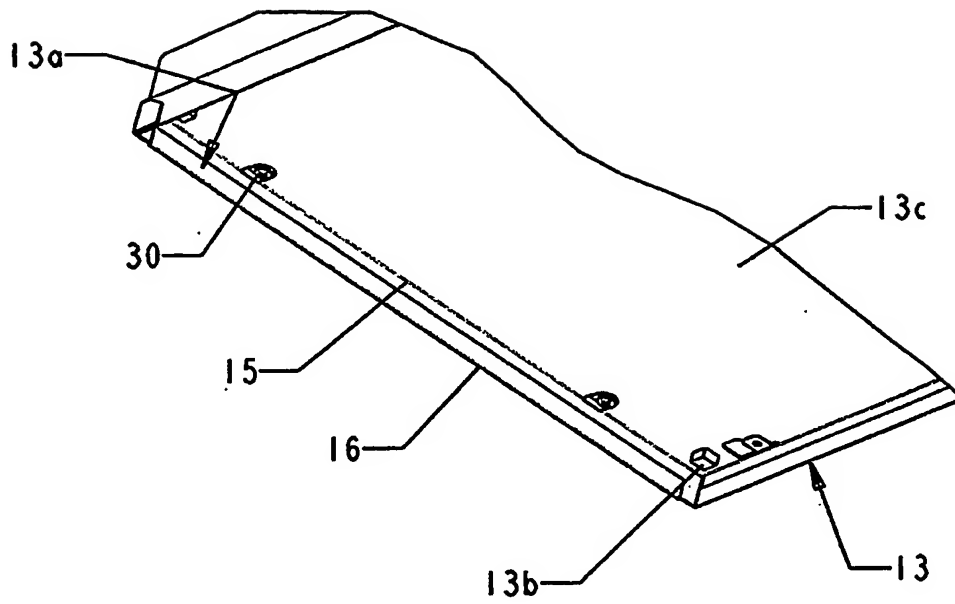


FIG. 2A

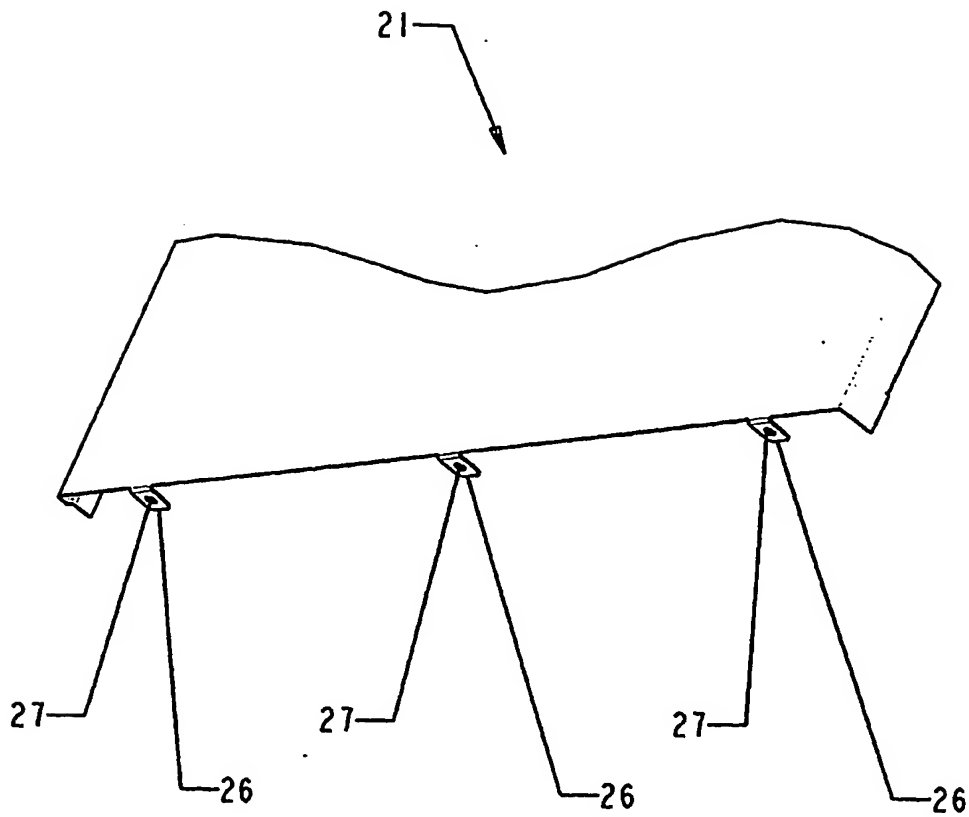


FIG. 3

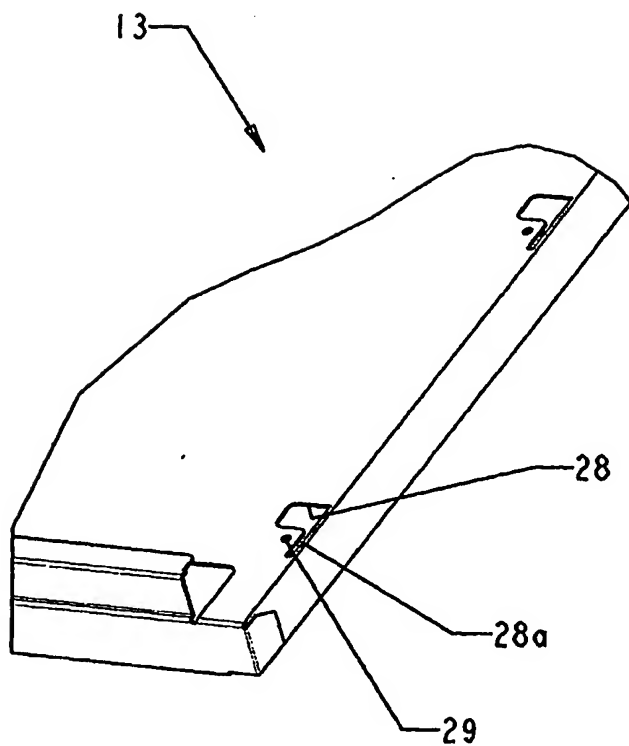


FIG. 4

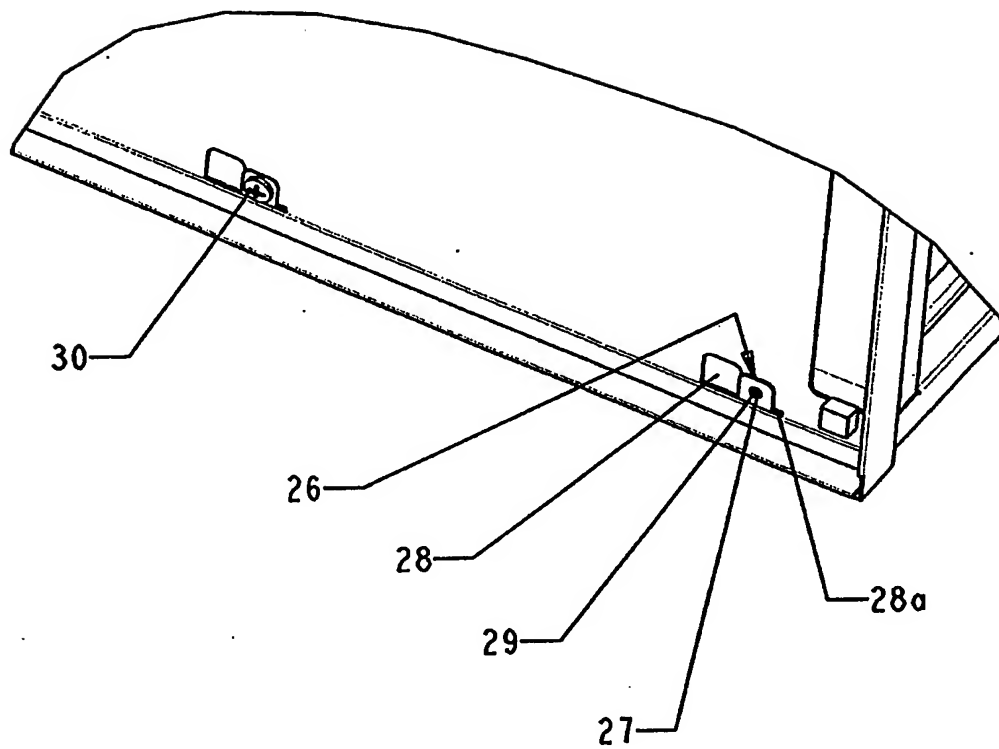


FIG. 5

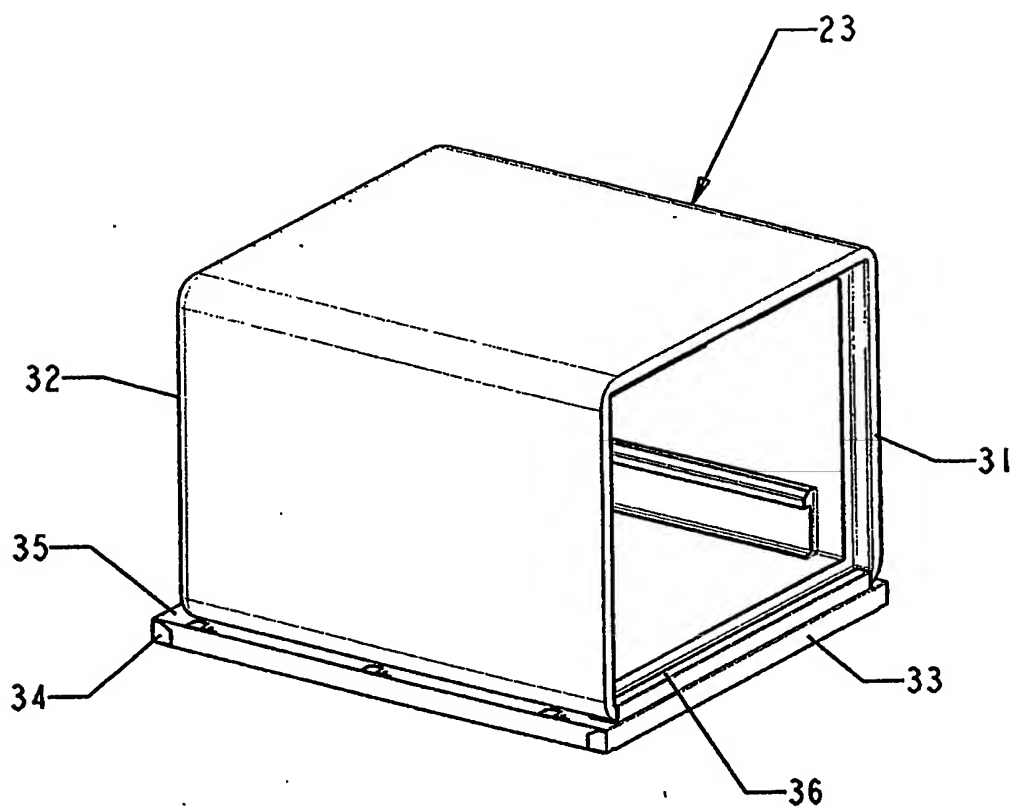


FIG. 6

PCT/US04/12555

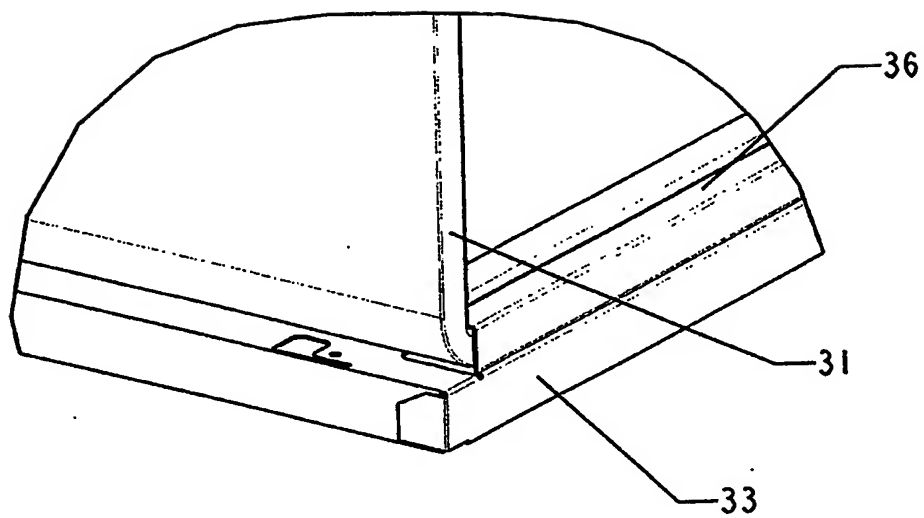


FIG. 7

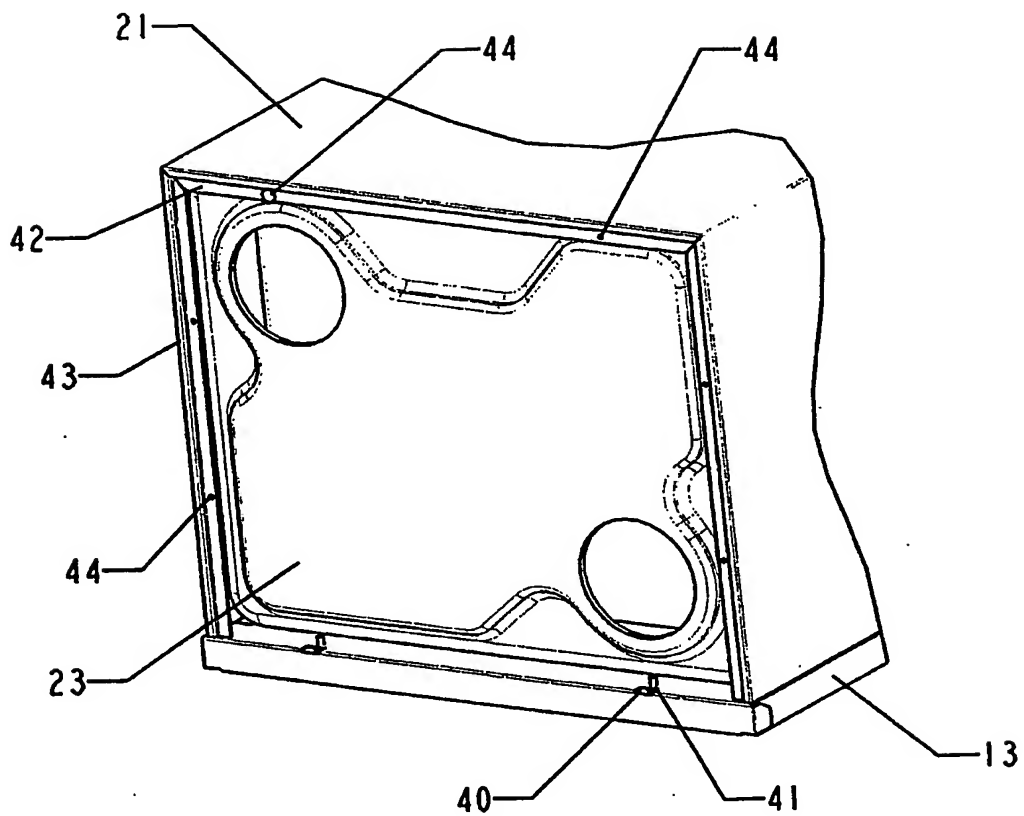


FIG. 8

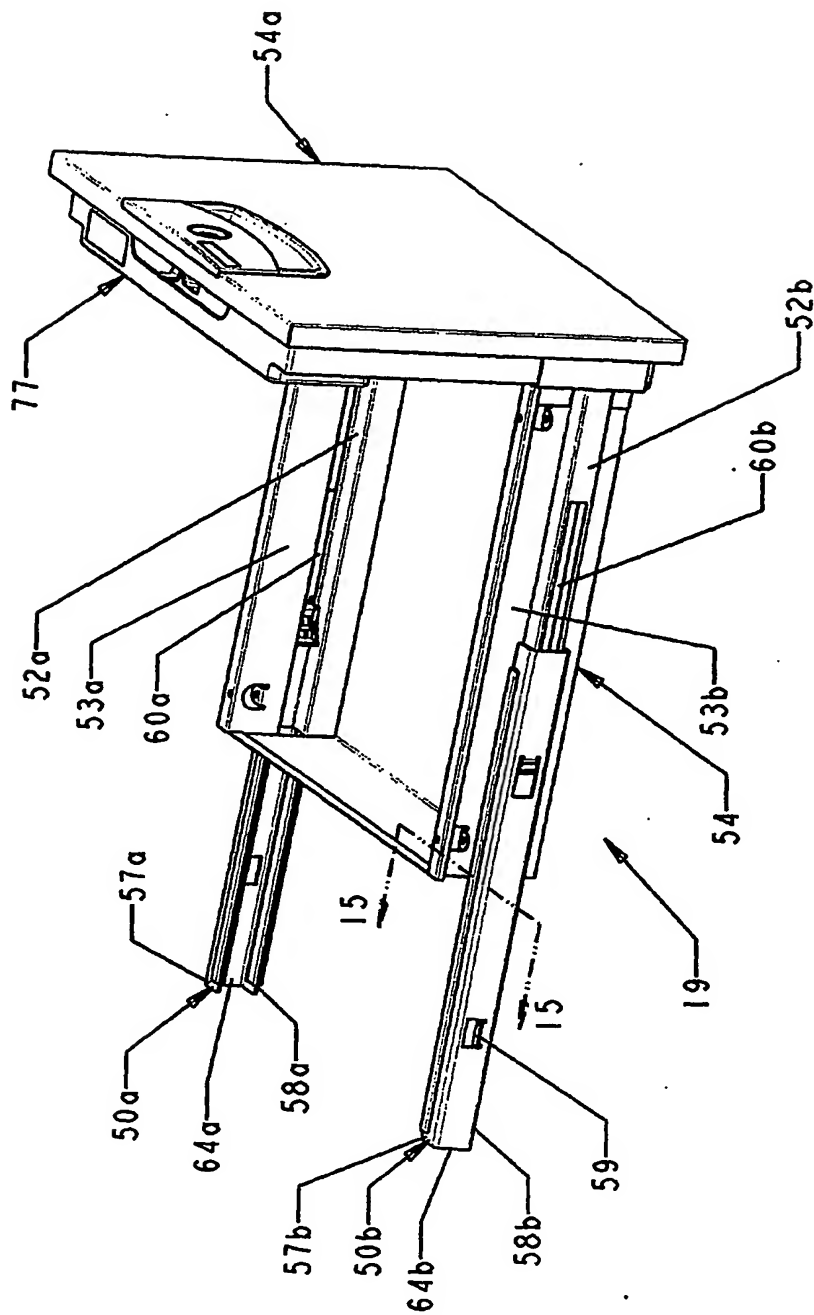


FIG. 9

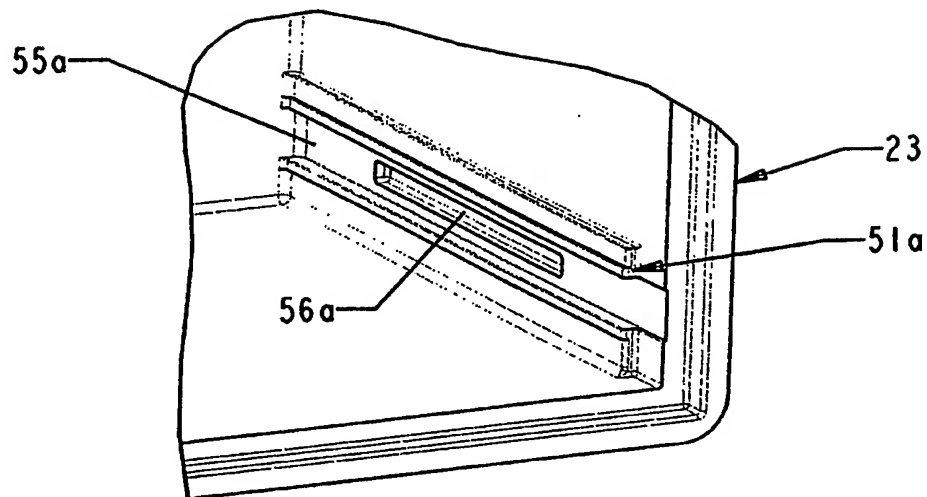


FIG. 10

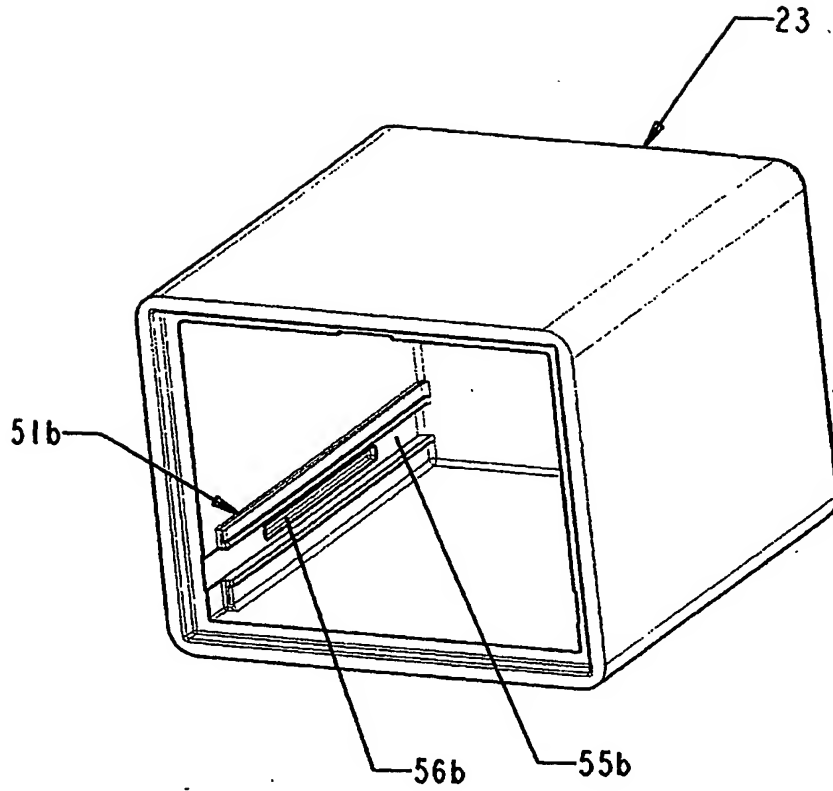


FIG. 11

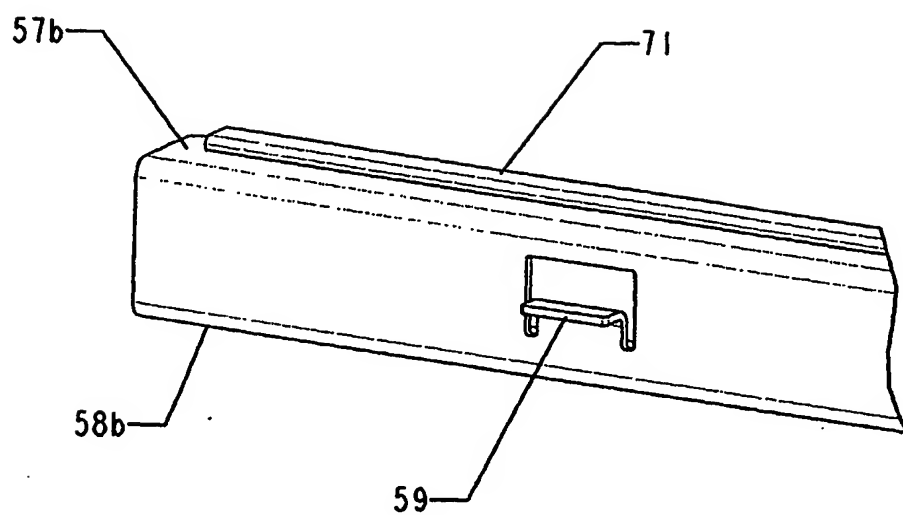


FIG. 12

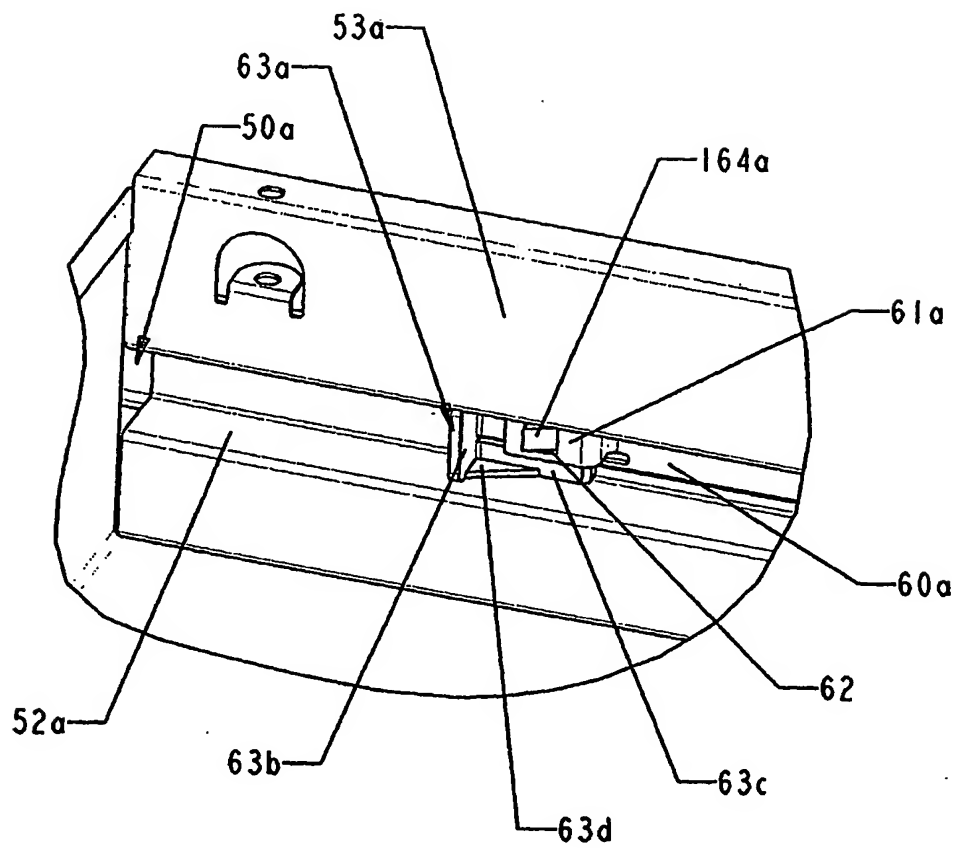


FIG. 13

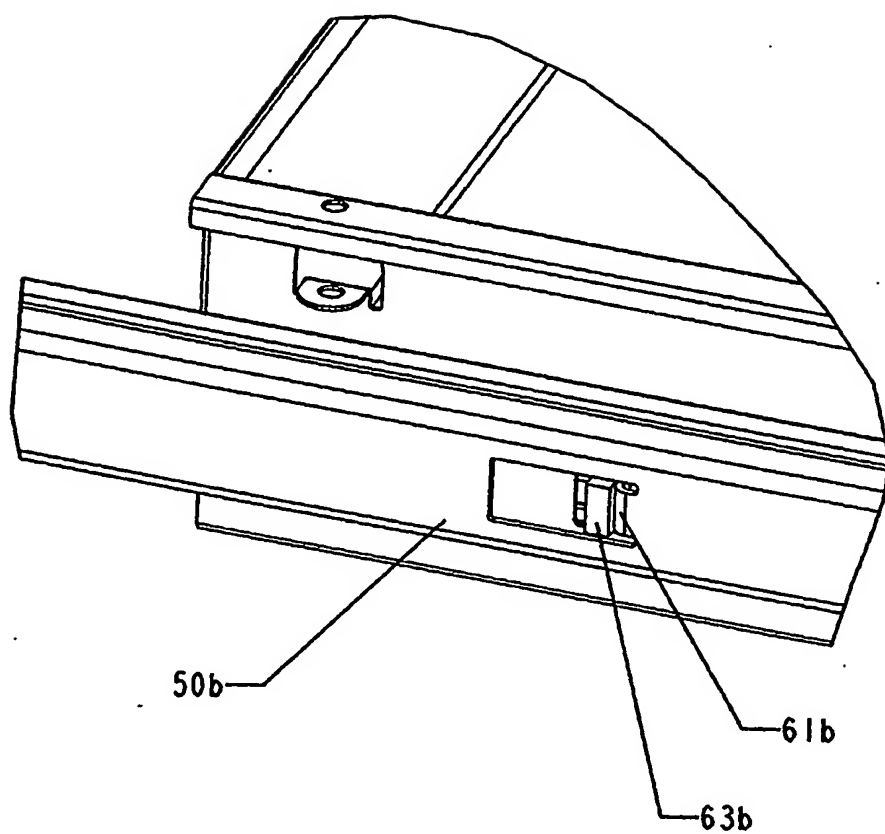


FIG. 14

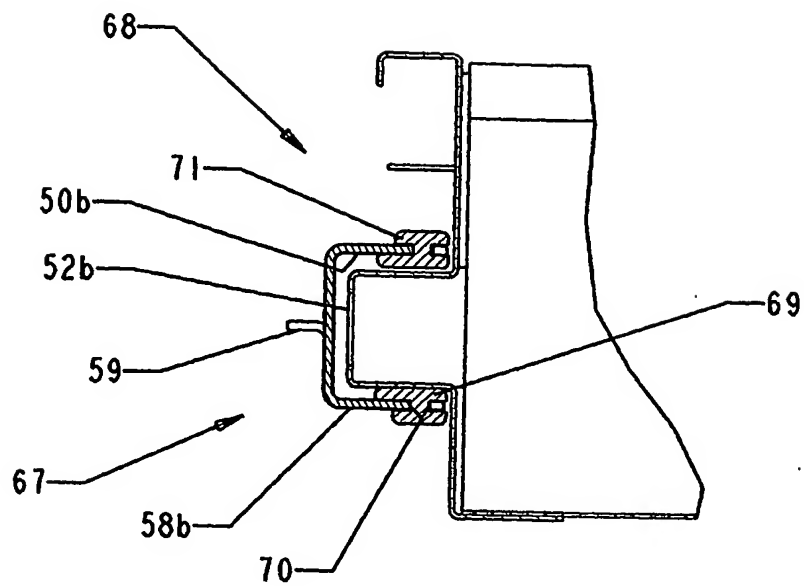


FIG. 15

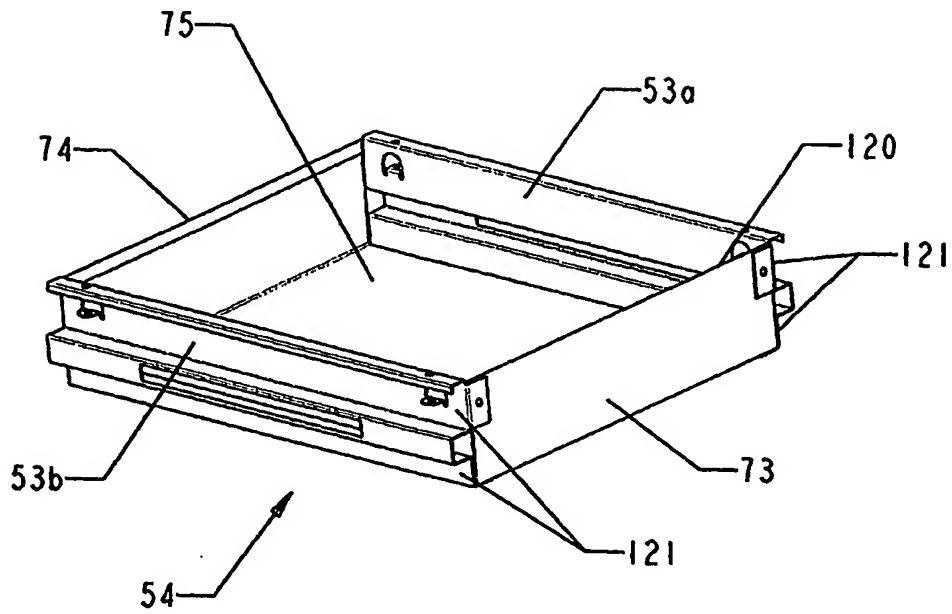


FIG. 16

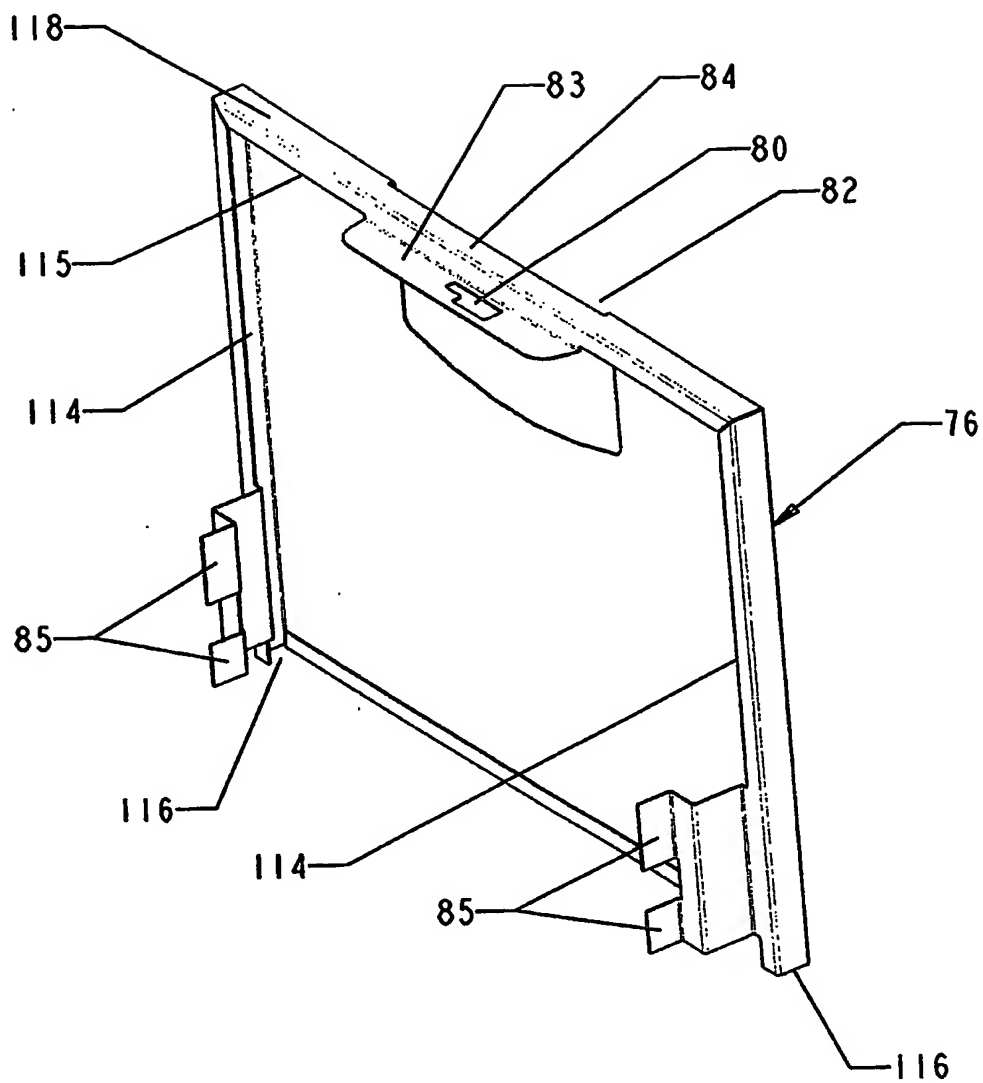


FIG. 17

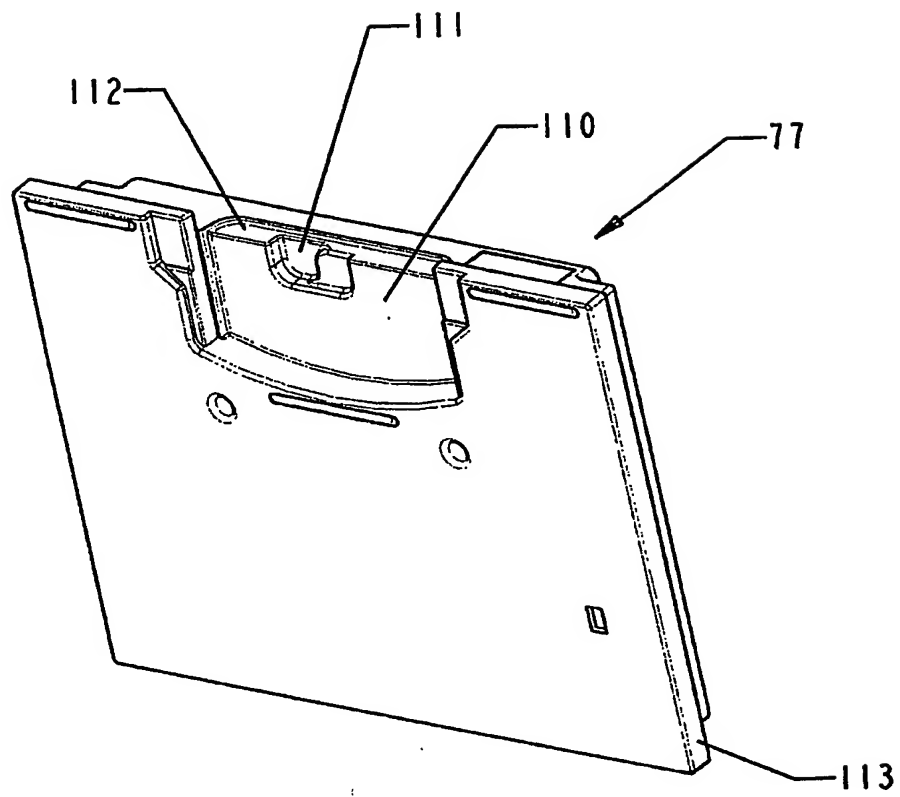


FIG. 18

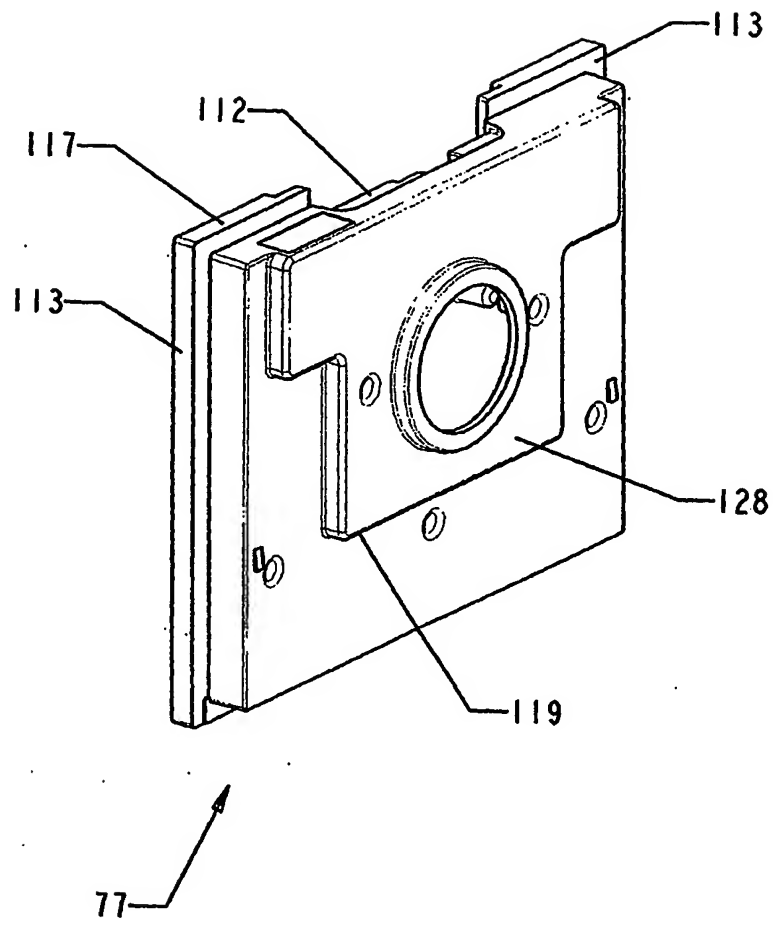


FIG. 19

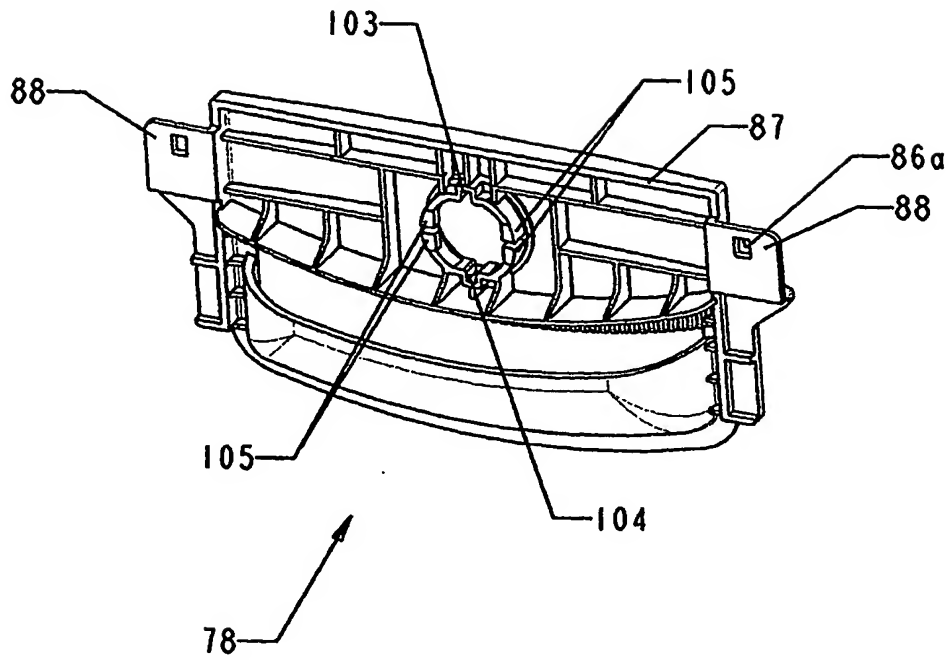


FIG. 20

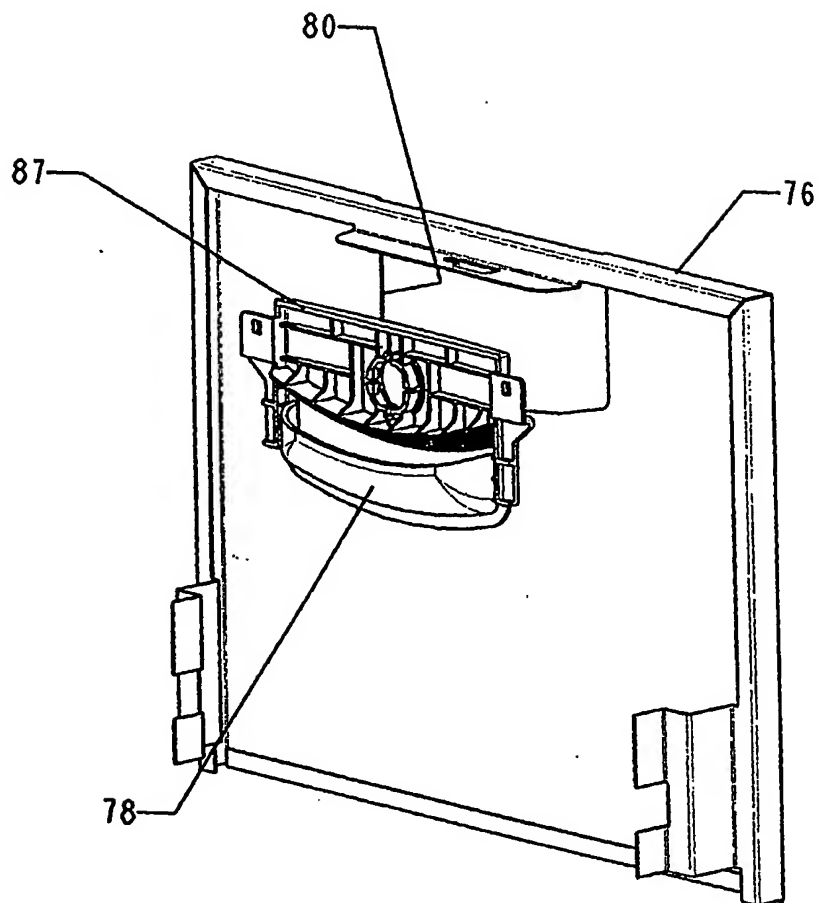


FIG. 20A

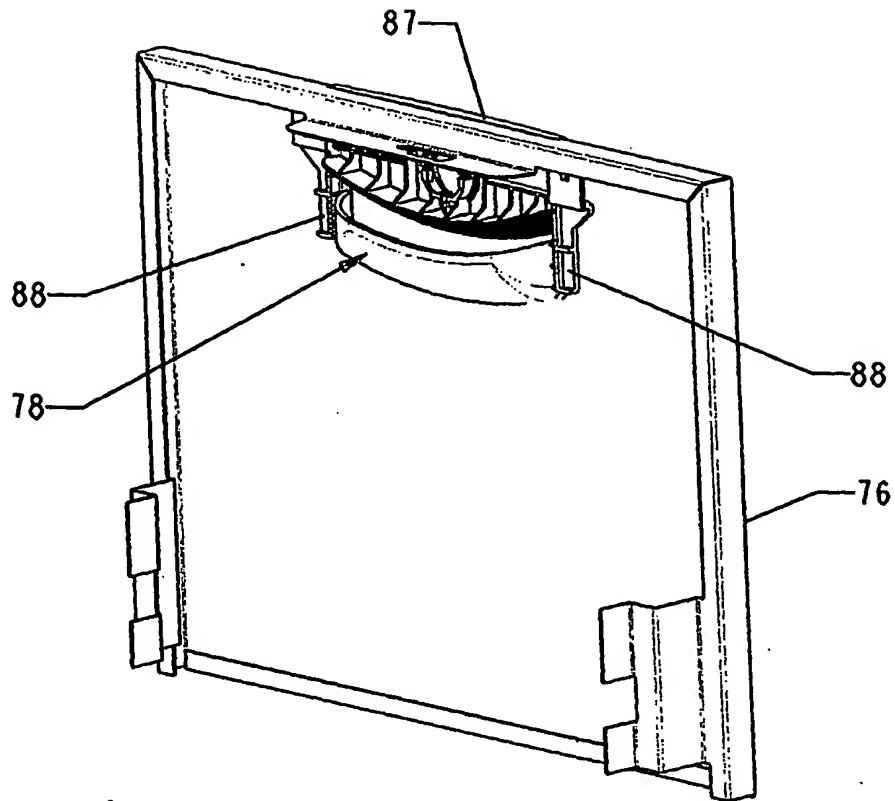


FIG. 20B

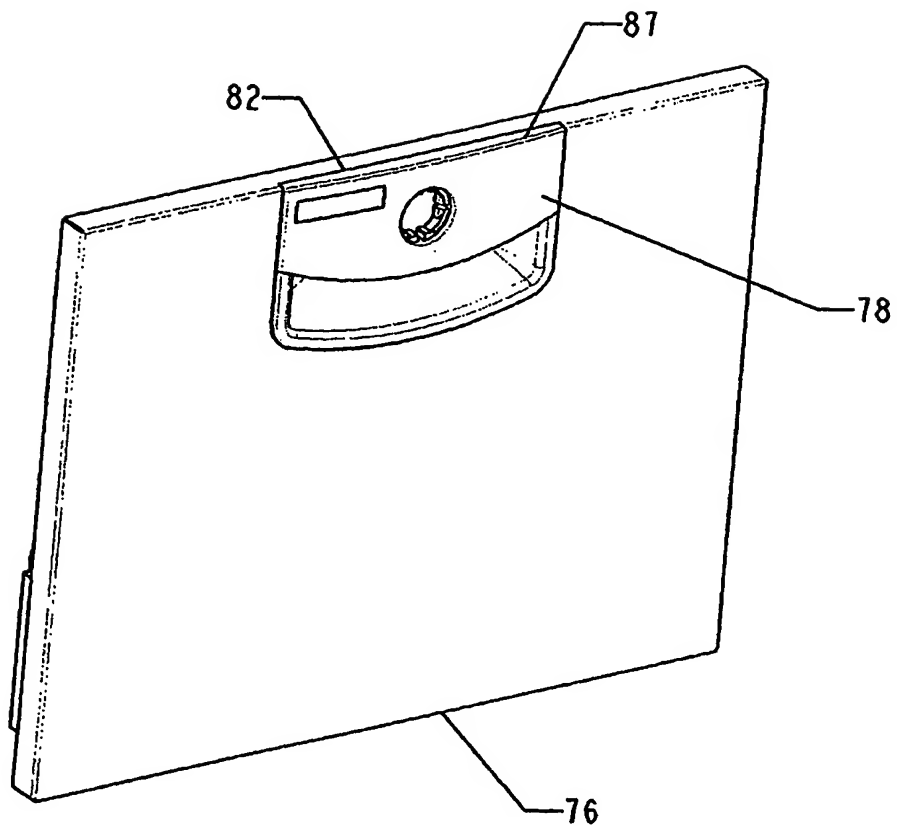


FIG. 20C

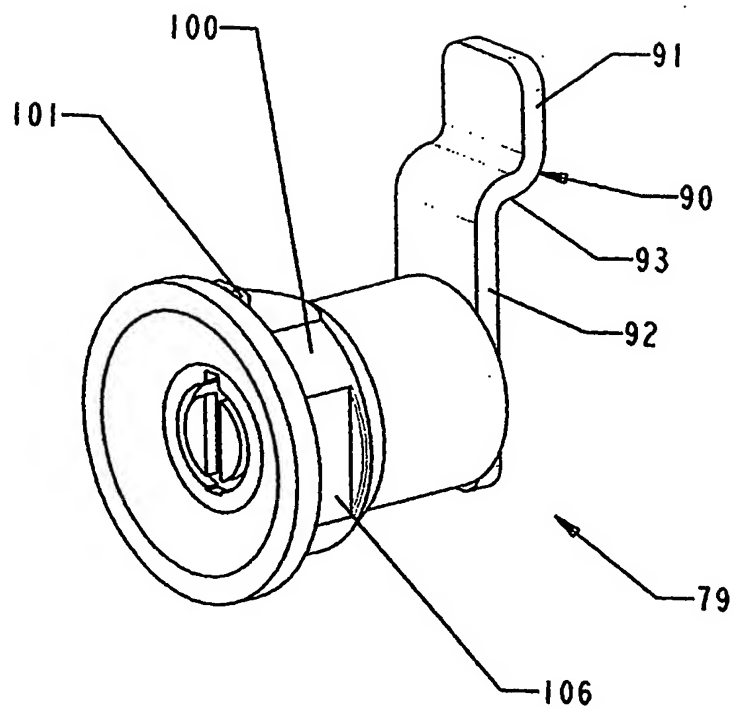


FIG. 21

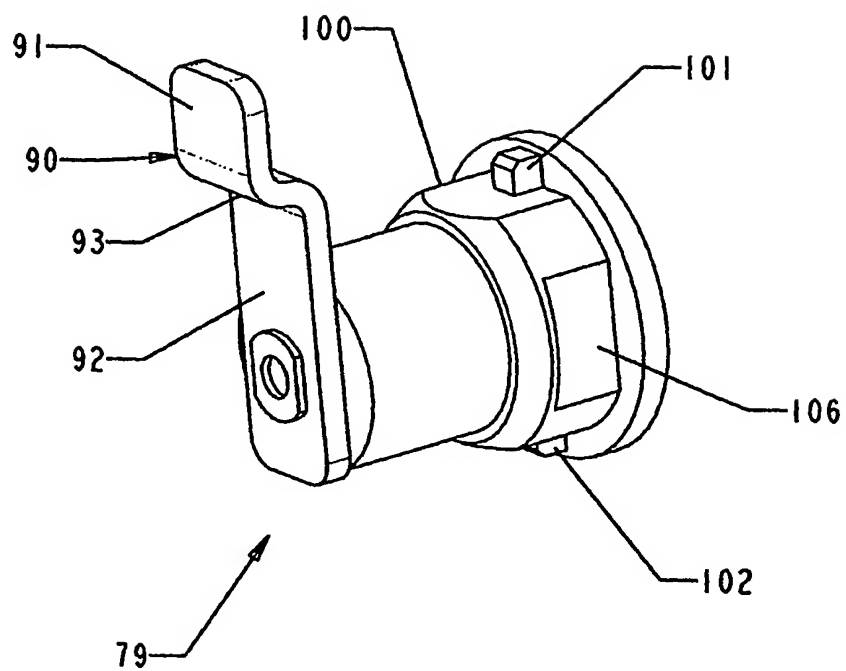


FIG. 21A

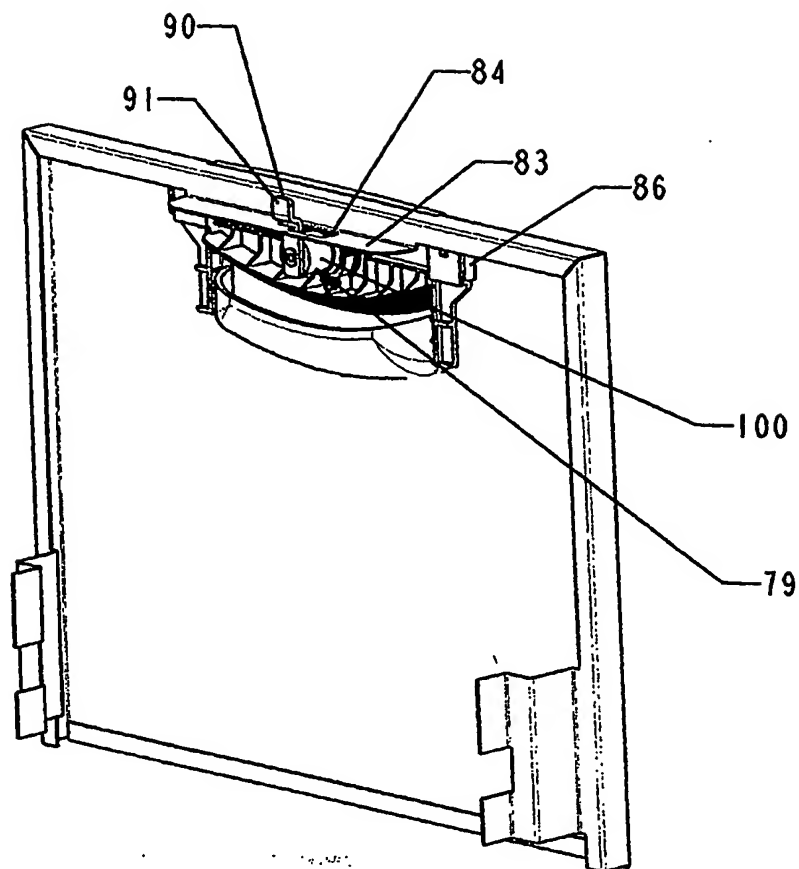


FIG. 22

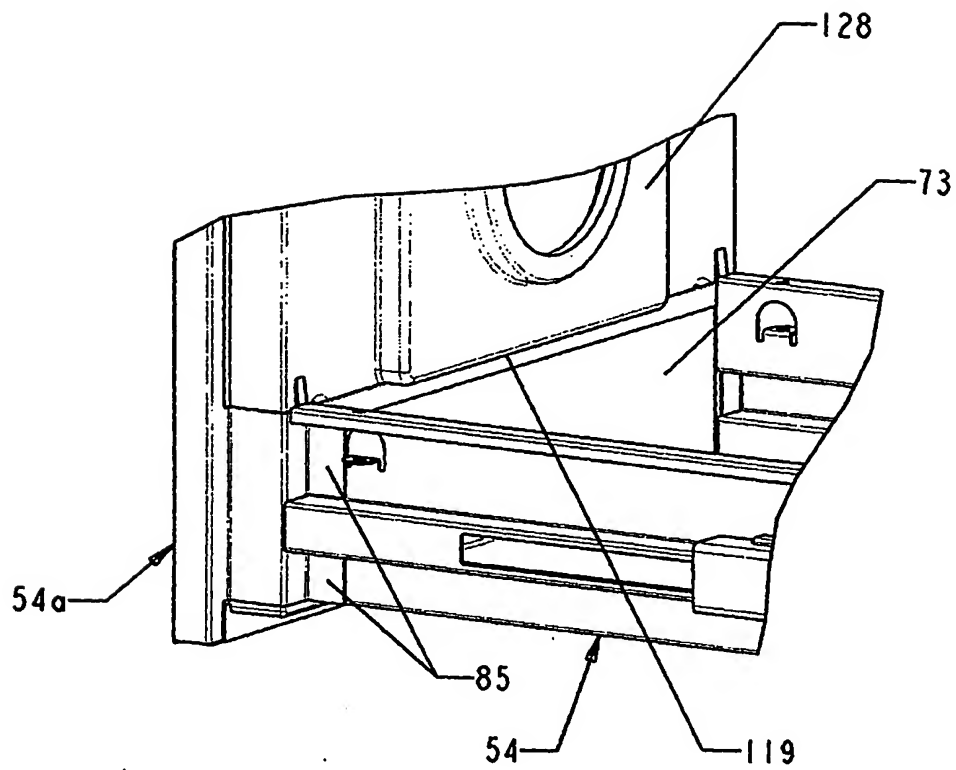


FIG. 23

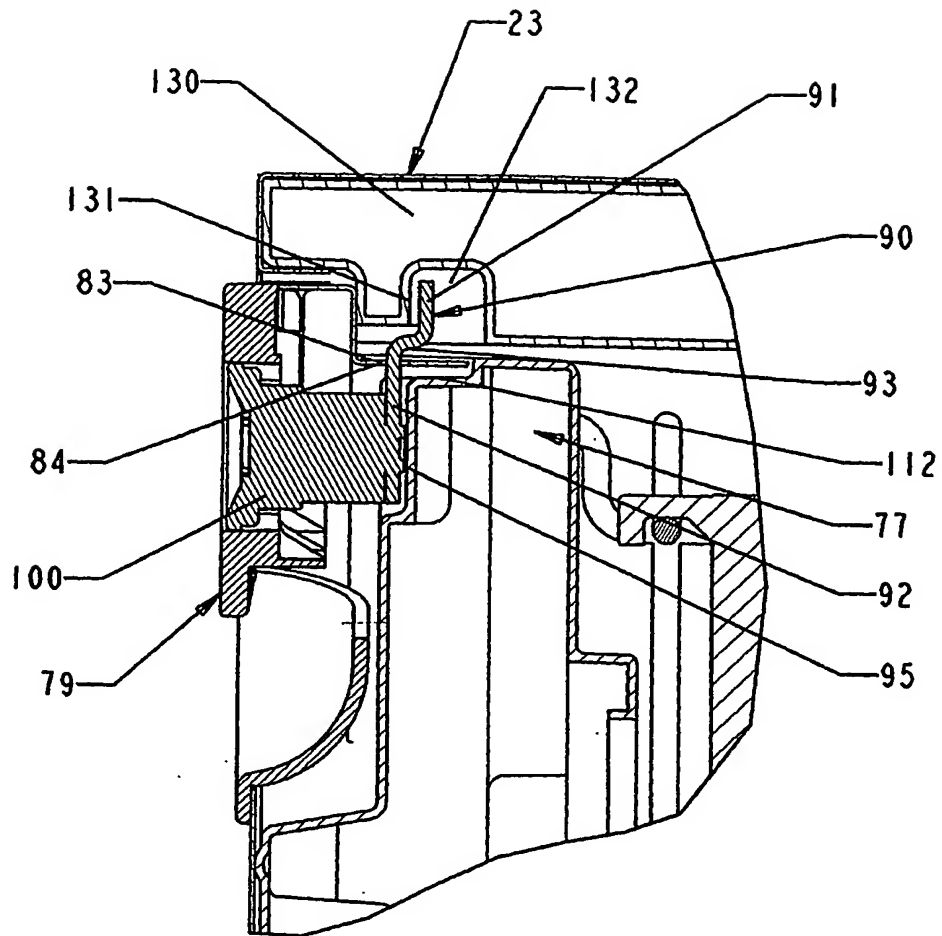


FIG. 24

PCT/US04/12555

PATENT  
89843.016603

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:	John D. Brush & Co., Inc.	)	
International		)	
Application No. :	TBA	)	
International		)	Authorized
Filing Date:	Herewith	)	Officer:
For:	STACKABLE BLOW MOLDED	)	
	CABINET	)	

Mail Stop: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

Dear Sir:

I hereby certify that the attached

One (1) Bound Certified Copy of the Priority Document

in connection with the above-named PCT application, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

"EXPRESS MAIL" Label Number

EV 386955306 US

DATE OF DEPOSIT

April 23, 2004

Margaret I. Hults

(Typed or printed name of person  
mailing paper or fee)

Margaret I. Hults  
(Signature of person mailing paper  
or fee)

PCT/US04/12555

PATENT  
89843.016603

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:	John D. Brush & Co., Inc.	)	
International		)	
Application No. :	TBA	)	Authorized
International		)	Officer:
Filing Date:	Herewith	)	
For:	STACKABLE BLOW MOLDED	)	
	CABINET	)	

Mail Stop: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

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Thirty (30) Sheets of Figures

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"EXPRESS MAIL" Label Number

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April 23, 2004

Margaret I. Hults

(Typed or printed name of person  
mailing paper or fee)

Margaret I. Hults

(Signature of person mailing paper  
or fee)

PCT/US04/12555

PATENT  
89843.016603

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:	John D. Brush & Co., Inc.	)	
International		)	
Application No. :	TBA	)	Authorized
		)	Officer:
International		)	
Filing Date:	Herewith	)	
For:	STACKABLE BLOW MOLDED	)	
	CABINET	)	

Mail Stop: PCT  
Commissioner for Patents  
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Alexandria, VA 22313-1450

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Specification, Claims, Abstract (24 pgs)

in connection with the above-named PCT application, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Margaret I. Hults

(Signature of person mailing paper  
or fee)

PCT/US04/12555

PATENT  
89843.016603

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:	John D. Brush & Co., Inc.	)	
		)	
International		)	
Application No. :	TBA	)	Authorized
		)	Officer:
International		)	
Filing Date:	Herewith	)	
		)	
For:	STACKABLE BLOW MOLDED	)	
	CABINET	)	

Mail Stop: PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

Dear Sir:

I hereby certify that the attached

PCT Request with PCT Fee Calculation Sheet (7 pgs + 1 Duplicate pg)

in connection with the above-named PCT application, is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 on the date indicated below and is addressed to Mail Stop: PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

"EXPRESS MAIL" Label Number

EV 386955306 US

DATE OF DEPOSIT

April 23, 2004

Margaret I. Hults

(Typed or printed name of person  
mailing paper or fee)

Margaret I. Hults

(Signature of person mailing paper  
or fee)

PCT/NSQ/12555  
 New International Application  
 Inventory of Unscannable or Missing  
 Items

Serial Number **PCT/US 04/12555**

Check This Column if Item Is Present	Item	Check This Column if Item Is Missing on Filing
✓	Return Receipt Postcard	
✓	Check (amount \$ <u>2794.00</u> )	
	PCT EASY Diskette	
	DNA Diskette	
	Exhibit	
✓	Express Mail Label or Envelope	
	Applicant Supplied Priority Document	
	Other (specify)	XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX
XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	Cover Letter	
XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXX	Other (specify)	

# PATENT COOPERATION TREATY

From the RECEIVING OFFICE

## PCT

To:  
DENNIS B. DANELLA  
JAECKLE FLEISCHMANN & MUGEL LLP  
39 STATE STREET  
SUITE 200  
ROCHESTER, NEW YORK 14614-1310

### NOTIFICATION CONCERNING PAYMENT OF PRESCRIBED FEES

(PCT Rules 14, 15 and 16 and Administrative  
Instructions, Sections 102bis(c), 304,  
323(b), 707(b) and 803)

Date of mailing (day/month/year) <span style="float: right;">27 Jul 2004</span>	
Applicant's or agent's file reference <span style="float: right;">89843.016603</span>	PAYMENT DUE <span style="float: right;">see item 3 for time limits</span>
International application No. <span style="float: right;">PCT/US2004/012555</span>	International filing date/Date of receipt (day/month/year) <span style="float: right;">23 Apr 2004</span>
Priority date (day/month/year) <span style="float: right;">23 Apr 2003</span>	
Applicant JOHN D. BRUSH & CO. INC.	

1. The applicant is hereby notified that this receiving Office has received:

- ☒ the payment of all the prescribed fees, and ☐ an overpayment, which will be refunded in due course.  
☐ no or insufficient payment of the prescribed fees and the applicant is hereby invited to pay the balance due, as summarized under item 2, within the time limit(s) indicated under item 3.

2. Fees and payment calculation:

2,814.00	-	2,814.00	=	0
Total fees payable		Amount paid		Balance

☐ The details of the calculation are given in the Annex.

3. Time limit(s) for payment and amount(s) payable (Rules 14.1, 15.4 and 16.1(f)):

- ☐ within ONE MONTH from the date of receipt of the international application (for the transmittal fee (if any), the search fee and the international filing fee). The amount payable for each fee is the amount applicable on the date of receipt of the international application.
- ☐ within 16 MONTHS from the priority date (only for the fee for priority document). The applicant's attention is drawn to the fact that the request made by the applicant under Rule 17.1(b) will be considered not to have been made unless the fee is paid within that time limit.

4. Additional observations (if necessary):

- ☐ The search copy will not be transmitted to the International Searching Authority until the search fee is paid (therefore the start of the international search will be delayed) (Rule 23.1(a) and (b)).

Name and mailing address of the receiving Office Mail Stop PCT, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Facsimile No. 703-305-3230	Authorized officer Eric Simms Telephone No. 703-305-3761
---	--

Form PCT/RO/102 (January 2004)

**ANNEX TO FORM PCT/RO/102  
CALCULATION OF THE PRESCRIBED FEES**

International application No.  
PCT/US2004/012555

**T Transmittal Fee**

Prescribed amount: . . . . .	300.00 <b>T</b>	
Amount paid: . . . . .	300.00	<input checked="" type="checkbox"/> correct amount
Balance: . . . . .	0.00	<input type="checkbox"/> overpayment
		<input type="checkbox"/> balance due

**S Search Fee**

Prescribed amount: . . . . .	1,000.00 <b>S</b>	
Amount paid: . . . . .	1,000.00	<input checked="" type="checkbox"/> correct amount
Balance: . . . . .	0.00	<input type="checkbox"/> overpayment
		<input type="checkbox"/> balance due

**I International Filing Fee**

Fixed amount for first 30 sheets: . . . . .	1,134.00 <b>i1</b>
<u>30</u> x <u>12.00</u> = <u>360.00</u> <b>i2</b>	
Number of sheets in excess of 30	Fee per sheet
Additional component: . . . 400 x <u>0.00</u> = <u>0.00</u> <b>i3</b>	Fee per sheet

Reduction where the international application is filed  
(See PCT Applicant's Guide, Volume I, General Part,  
for details on the availability of this reduction):

using the PCT-EASY software: . . . . .	0.00 <b>r</b>
or	
in electronic form where the text of the description, claims and abstract is not in character coded format: . . . . .	0.00 <b>r</b>
or	
in electronic form where the text of the description, claims and abstract is in character coded format: . . . . .	0.00 <b>r</b>

Sub-total: . . . . . = 1,494.00 **i1+i2+i3-r**

Prescribed total amount (The amount to be entered at I is the sub-total entered at i1+i2+i3-r, except where the applicant is (or all applicants are) entitled to a reduction of 75%, in which case the amount to be entered at I is 25% of the sub-total (i1+i2+i3-r); certain applicants from certain States are entitled to a reduction of 75% of the international filing fee; see Notes to the Fee Calculation Sheet as annexed to the Request Form, PCT/RO/101, for details): . . . . .

	1,494.00 <b>I</b>	
Amount paid: . . . . .	1,494.00	<input checked="" type="checkbox"/> correct amount
Balance: . . . . .	0.00	<input type="checkbox"/> overpayment
		<input type="checkbox"/> balance due

**P Fee for Priority Document**

Prescribed amount: . . . . .	<b>P</b>	
Amount paid: . . . . .		<input type="checkbox"/> correct amount
Balance: . . . . .		<input type="checkbox"/> overpayment
		<input type="checkbox"/> balance due

# PATENT COOPERATION TREATY

From the RECEIVING OFFICE

## PCT

To:  
DENNIS B. DANELLA  
JAECKLE FLEISCHMANN & MUGEL LLP  
39 STATE STREET  
SUITE 200  
ROCHESTER, NEW YORK 14614-1310

### NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE

(PCT Rule 20.5(c))

Date of mailing (day/month/year) <span style="float: right;">27 Jul 2004</span>	
Applicant's or agent's file reference 89843.016603	<b>IMPORTANT NOTIFICATION</b>
International application No. PCT/US2004/012555	International filing date (day/month/year) 23 Apr 2004
Priority date (day/month/year) 23 Apr 2003	
Applicant JOHN D. BRUSH & CO. INC.	
Title of the invention STACKABLE BLOW MOLDED CABINET	

1. The applicant is hereby notified that the International application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the International application: 27 Jul 2004

- ☒ was transmitted to the International Bureau on \_\_\_\_\_
- ☐ has not yet been transmitted to the International Bureau for the reason indicated below and a copy of this notification has been sent to the International Bureau\*:
- ☐ because the necessary national security clearance has not yet been obtained.
- ☐ because (reason to be specified): \_\_\_\_\_

\* The International Bureau monitors the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

#### 3. FOREIGN TRANSMITTAL LICENSE INFORMATION

Completed by: ES

- ☐ Additional license for foreign transmittal not required. This subject matter is covered by a license already granted or the equivalent U.S. national application. Refer to that license for information concerning its scope.
- ☐ License for foreign transmittal not required. 37 CFR 5.11(c)(1) or 37 CFR 5.11(c)(2). However, a license may be required for additional subject matter. See 37 CFR 5.15(b).
- ☒ Foreign transmittal license granted. 35 U.S.C. 184; 37 CFR 5.11 on 22 Jul 2004 :  
(date)
- ☒ 37 CFR 5.15(a) ☐ 37 CFR 5.15(b)

Name and mailing address of the receiving Office  
Mail Stop PCT, Commissioner for Patents  
P.O. Box 1450, Alexandria, VA 22313-1450  
Facsimile No. 703-305-3230

Authorized officer  
Eric Simms

Telephone No. 703-305-3761

Form PCT/RO/105 (July 1992)

# PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

## PCT

NOTIFICATION OF RECEIPT  
OF SEARCH COPY

(PCT Rule 25.1)

To:

DENNIS B. DANELLA  
JAECKLE FLEISCHMANN & MUGEL LLP  
39 STATE STREET  
SUITE 200  
ROCHESTER, NEW YORK 14614-1310

Date of mailing  
(day/month/year)

27 Jul 2004

Applicant's or agent's file reference  
89843.016603

IMPORTANT NOTIFICATION

International application No.  
PCT/US2004/012555

International filing date (day/month/year)  
23 Apr 2004

Priority date (day/month/year)  
23 Apr 2003

Applicant

JOHN D. BRUSH & CO. INC.

1. Where the International Searching Authority and the receiving Office are not the same Office:  
The applicant is hereby notified that the search copy of the international application was received by this International Searching Authority on the date indicated below.

Where the International Searching Authority and the receiving Office are the same Office:  
The applicant is hereby notified that the search copy of the international application was received on the date indicated below.

27 Jul 2004

(date of receipt).

2. ☐ The search copy was accompanied by a nucleotide and/or amino acid sequence listing or tables related thereto in computer readable form.

3. Time limit for establishment of international search report and written opinion of the International Searching Authority  
The applicant is informed that the time limit for establishing the international search report and the written opinion of the International Searching Authority is three months from the date of receipt indicated above or nine months from the priority date, whichever time limit expires later (Rules 42.1 and 43bis.1(a)).

4. A copy of this notification has been sent to the International Bureau and, where the first sentence of paragraph 1 applies, to the receiving Office.

Name and mailing address of the ISA/  
Mail Stop PCT, Commissioner for Patents  
P.O. Box 1450, Alexandria, VA 22313-1450  
Facsimile No. 703-305-3230

Authorized officer

Eric Simms

Telephone No. 703-305-3761

Form PCT/ISA/202 (January 2004)

**TRANSMITTAL LETTER TO THE  
UNITED STATES RECEIVING OFFICE**

PTO-1382 (Rev. 04/2003) (M501130) / 12555 PCT/US2.FRP /REV03

Date	
International Application No.	PCT/US 04/12555
Attorney Docket No.	89843.016603

**DT02 Rec'd PCT/PTO 2 3 APR 2004**

**I. Certification under 37 CFR 1.10 (if applicable)**

EV 386955306 US
Express Mail mailing number

Date of Deposit
-----------------

I hereby certify that the application/correspondence attached hereto is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Signature of person mailing correspondence
--

Margaret I. Hulst
Typed or printed name of person mailing correspondence

**II. ☒ New International Application**

TITLE	STACKABLE BLOW MOLDED CABINET
-------	-------------------------------

Earliest priority date (Day/Month/Year)
23/04/2003

**SCREENING DISCLOSURE INFORMATION:** In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (Note: check as many boxes as apply):

- A. ☐ The invention disclosed was not made in the United States.
- B. ☐ There is no prior U.S. application relating to this invention.
- C. ☒ The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on form PCT/RO/101 (Request) and this listing does not constitute a claim for priority).

application no.	60/464,699	filed on	23 April 2003
application no.		filed on	

- D. ☐ The present international application contains additional subject matter not found in the prior U.S. application(s) identified in paragraph C. above. The additional subject matter is found on pages  and ☐ DOES NOT ALTER ☐ MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 CFR 5.1. See 37 CFR 5.15.

**III. ☐ A Response to an Invitation from the RO/US. The following document(s) is (are) enclosed:**

- A. ☐ A Request for An Extension of Time to File a Response
- B. ☐ A Power of Attorney (General or Regular)
- C. ☐ Replacement pages:

pages		of the request (PCT/RO/101)	pages		of the figures
pages		of the description	pages		of the abstract
pages		of the claims			

- D. ☐ Submission of Priority Documents

Priority document		Priority document	
-------------------	--	-------------------	--

- E. ☐ Fees as specified on attached Fee Calculation sheet form PCT/RO/101 annex

**IV. ☐ A Request for Rectification under PCT 91 ☐ A Petition ☐ A Sequence Listing Diskette**

**V. ☐ Other (please specify):**

The person signing this form is the:

<input type="checkbox"/> Applicant
<input checked="" type="checkbox"/> Attorney/Agent (Reg. No.) 48,653
<input type="checkbox"/> Common Representative

Dennis B. Danella
Typed name of signer
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